Set- 1 Class -VII Subject : Science

Q.N.	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
1	3_15 Science 3541	Nutrition in Plants	Kumud planned to replace her kitchen garden with some SHRUBS. Identify which plants she could have chosen.		A

Answer Options			
Option A	Option B	Option C	Option D
Hibiscus, Rose, Bougainvillea, Henna	Rose, Balsam, Jasmine, Tulsi	Bougainvillea, Henna, Lemon, Papaya	Marigold, Tiger-Lily, Henna, Balsam

Q.N.	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
2	3_15 Science 3544	Nutrition in Plants	To conduct an experiment on plant growth, Lokesh added a cupful of liquid fertilizer each week to a number of plants. The unit that he used to measure the volume of the fertilizer is		B

Answer Options			
Option A	Option B	Option C	Option D
cubic metres.	millilitres.	kilograms.	kilolitres.

Q.N.	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
3	3_15 Science	Nutrition in	Ramesh hammers a nail into the trunk of a young 2m high tree about 10cm from the ground. After 2 years, the tree has grown to a height of about 5m. The nail is still on the tree. At what		A

	3581	Plants	height from the ground will it be?		

Answer Options			
Option A	Option B	Option C	Option D
about 10 cm from the ground	about 2 metres from the ground	about 25 cm from the ground	it depends on the tree

4.	**2_9** **Science** **6074**	NUTRITION IN PLANTS	We know that the leaves make food for a plant. When a seed is planted, before its leaves grow, where does the young plant get its food?		**C**

Answer Options			
Option A	Option B	Option C	Option D
The plant does not need food at that time.	The plant gets food from the soil.	The plant uses food stored in the seed.	The plant uses water as food.

5.	**1_3** **Science** **6663**	NUTRITION IN PLANTS	Use the following information to answer the question: Certain types of mushroom grow on doors which are wet after the rains. These mushrooms can be classified as :-	**Autotrophs:** Organisms that can prepare their own food **Heterotrophs:** Organisms that depend on plants and animals for nutrition **Saprophytes:** Organisms that grow on dead and decaying organic matter. **Parasites:** Organisms that grow on or feed on a different organism.	**C**

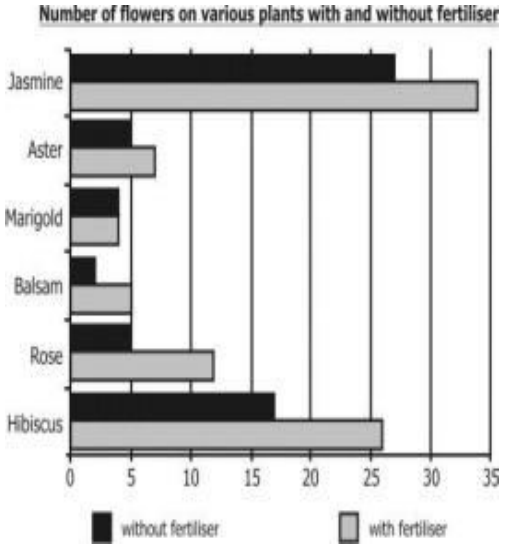
			Answer Options			
			Option A	Option B	Option C	Option D
			Autotrophs	Heterotrophs	Saprophytes	Parasites
6.	**1_3 Science 7333**	NUTRITION IN PLANTS	It is known that light is not required for moist pea seeds to germinate. However, dry seeds will not germinate even if there is light. Lata sets up 4 experiments using similar pea seeds: 1. Dry pea seeds kept in light. 2. Dry pea seeds kept in the dark. 3. Moist pea seeds kept in light. 4. Moist pea seeds kept in the dark. In which case(s) will the seeds germinate?			**C**

Answer Options			
Option A	Option B	Option C	Option D
1 only	3 only	3 and 4 only	1 and 3 only

7	3_17 Science 1514	Nutrition in plants	When a carrot plant grows, the edible root and a leafy top are produced in the first year. Flowers and seeds are produced in the second year. From this		B

			we can say that the carrot plant is:		

Answer Options			
Option A	Option B	Option C	Option D
an annual plant	a biennial plant	a triennial plant	a perennial plant

8.	3_16 Science 2448	Nutrition in Plants/ Reproduction in Plants	Mohsin and Ganesh carry out an experiment to study the effect of fertilizer use on the number of flowers produced in different plants. The results of their experiment are shown alongside. Which plant showed the highest increase and the highest percentage increase in number of flowers due to use of fertilizer?	<table><tr><th></th><th>Highest increase</th><th>Highest % increase</th></tr><tr><td>A.</td><td>Jasmine</td><td>Jasmine</td></tr><tr><td>B.</td><td>Hibiscus</td><td>Balsam</td></tr><tr><td>C.</td><td>Hibiscus</td><td>Jasmine</td></tr><tr><td>D.</td><td>Jasmine</td><td>can't tell</td></tr></table> 	B

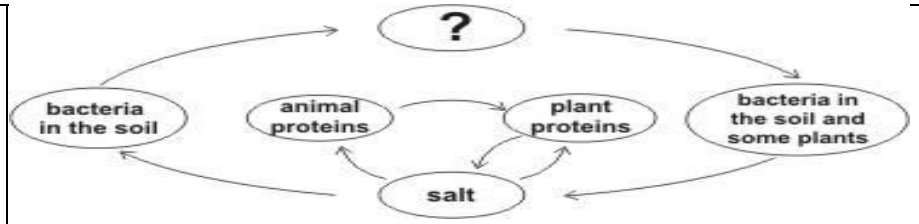
Answer Options			
Option A	Option B	Option C	Option D
A	B	C	D

9	4_24 Science 10275	Nutrition in Plants	Organisms that use solar energy to make food are called producers. Which of the following lists contains all the PRODUCERS in this food web?		D

Answer Options			
Option A	Option B	Option C	Option D
Grasshoppers, mice, rabbits, birds, hawks and foxes	Grasses, shrubs and grasshoppers	Mice, rabbits and grasshoppers	Grasses and shrubs

10	4_24 Science 10276	Nutrition in Plants	What will happen to the population of grasshoppers, if the population of mice and rabbits decreases significantly?		A

Answer Options			
Option A	Option B	Option C	Option D
It will increase.	It will decrease.	It will remain the same.	Cannot say.

11.	4_25 Science 11877	Nutrition in plants	Which gas will you fill in the empty bubble here?		A

		Answer Options				
		Option A	Option B	Option C	Option D	
		Nitrogen	Oxygen	Carbon dioxide	Water vapour.	

12.	**1_3** **Science** **7331**	NUTRITION IN PLANTS	Use the following information to answer the question. One of the most common diseases a pet gets infested with is a worm infection in the stomach. 'Tape worm' is one such worm which lives off the nutrients from the stomach of an animal. Tape worms are, therefore, _____.	**Autotrophs:** Organisms that can prepare their own food **Heterotrophs:** Organisms that depend on plants and animals for nutrition **Saprophytes:** Organisms that grow on dead and decaying organic matter. **Parasites:** Organisms that grow on or feed on a different organism.	**D**

Answer Options			
Option A	Option B	Option C	Option D
Saprophytes	Autotrophs	Heterotrophs	Parasites

13.	3_15 Science 3583	Nutrition in Animals	It appears from the table that high-energy foods tend to be generally poor in _____	The following table provides details of the energy (kcal), Proteins (g), Carbohydrates (g) and Fats (g) provided by 100g of various foods. Study it and answer the question **Food (100g) / Energy(kcal) / Carbohydrates(g) / Fats(g) / Proteins(g)** Curd 55 6 1 6 Butter 750 0 80 1 Milk 65 5 4 3 Sugar 390 100 0 0 Ghee/Oil 900 0 100 0 Nuts 570 9 50 24 Cereals 330 69 2 13 Pulses (Dal) NA 60 0 20 NA: Not available	A

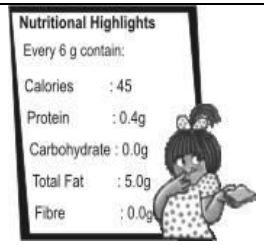
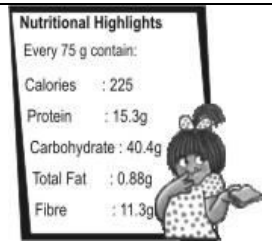
Answer Options			
Option A	Option B	Option C	Option D
protein.	fat.	carbohydrates.	none of these

14.	3_15 Science 3584	Nutrition in Animals	Raghuram had a meal cooked in 5g of oil. His meal consisted of 25g of dal, 100 g of cereals and a sweet made of 10g of nuts, 1g of ghee and 10 g of sugar. Use the table given below to calculate the total PROTEIN VALUE of his meal?	The following table provides details of the energy (kcal), Proteins (g), Carbohydrates (g) and Fats (g) provided by 100g of various foods. Study it and answer the question **Food (100g) / Energy(kcal) / Carbohydrates(g) / Fats(g) / Proteins(g)** Curd 55 6 1 6 Butter 750 0 80 1 Milk 65 5 4 3 Sugar 390 100 0 0 Ghee/Oil 900 0 100 0 Nuts 570 9 50 24 Cereals 330 69 2 13 Pulses (Dal) NA 60 0 20 NA: Not available	A

Answer Options			
Option A	Option B	Option C	Option D
20g	30g	40g	60g

15.	4_25 Science 11977	Nutrition in animals	Only one of these labels actually belongs to a packet of butter. Identify the correct one		A

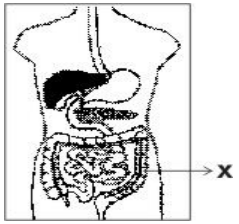
Answer Options

Option A	Option B	Option C	Option D
			

NOTE

Question 6074(FOLDER 2_9) and question 11902 (FOLDER4_25) are same [Question 11902 not included in Q paper]

Question 11977(FOLDER 4_25) and question 1515 (FOLDER3_17) are same [Question 1515 not included in Q paper]

1.	4_25 Science 11955	Nutrition in animals	The diagram below represents a portion of the human body. The principal function of structure X is to		C

Answer Options			
Option A	Option B	Option C	Option D
Produce salivary enzymes.	Secrete bile.	Absorb water from digested food.	Break down food particles.

Set -2 **Class -VII** **Subject: Science**

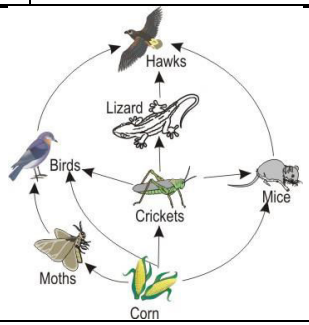
2.	3_17 Science 1494	Nutrition in Animals	Which option correctly shows the function of the different types of teeth in Man?		D

	Incisors	Canines	Premolars	Molar
A.	Grinding	Grinding	Cutting	Tearing
B.	Grinding	Tearing	Cutting	Grinding
C.	Tearing	Grinding	Cutting	Grinding
D.	Cutting	Tearing	Grinding	Grinding

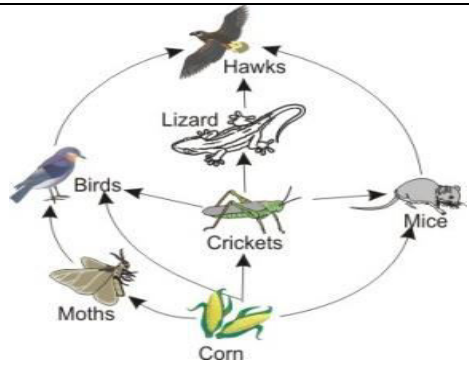
Answer Options			
Option A	Option B	Option C	Option D
A	B	C	D

3.	3_17 Science 1496	Nutrition in Animls	Which of these is the smallest structure capable of basic life processes like nutrition and reproduction?			D

Answer Options			
Option A	Option B	Option C	Option D
DNA	Tissues	The molecule	The cell

4.	3_17 Science 1503	Nutrition in Animals	Which of the FOOD CHAINS could be made from the given food web?			C

Answer Options			
Option A	Option B	Option C	Option D
Mice -->lizard -->bird --> moth	Corn --> bird --> mice --> hawk	Corn --> cricket --> lizard --> hawk	Moth --> cricket --> corn &Birds;> mice

5.	3_17 Science 1504	Nutrition in Animals	Some animals eat only plants and are called primary consumers. Some animals eat other animals and are called secondary consumers. Which of these are BOTH primary and secondary consumers?		C

Answer Options			
Option A	Option B	Option C	Option D
hawks	Corn	Mice	Lizard

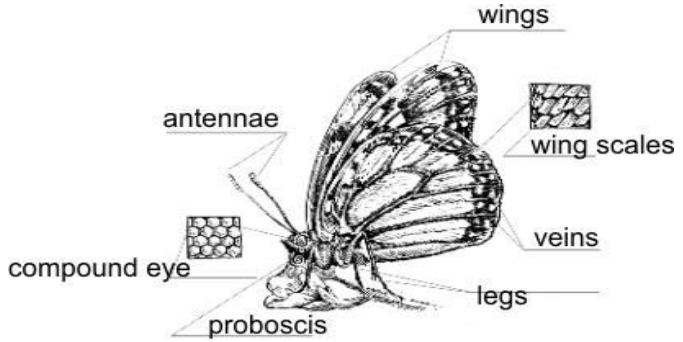
6.	**1_3 Science 7338**	NUTRITION IN ANIALS	Name the digestive substance found in mouth.		**C**

Answer Options			
Option A	Option B	Option C	Option D
Teeth	Tongue	Saliva	Lips

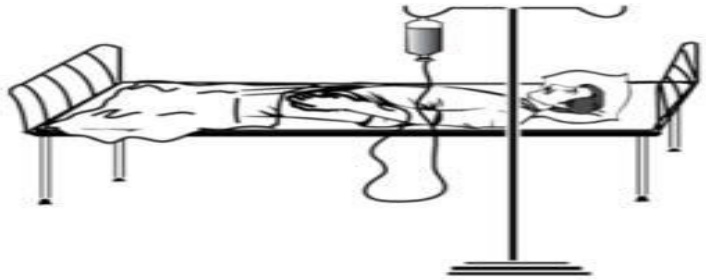
7.	**1_3 Science**	NUTRITION IN ANIMALS	The amount of energy content in food is usually measured in:		**B**

	6660	

Answer Options			
Option A	Option B	Option C	Option D
percentage	calories	kilograms	grams

8.	**1_3** **Science** **6662**	NUTRITION IN ANIMALS	Shown here is the picture of a butterfly. The part of the butterfly that helps it acquire its food is the_____.		**B**

Answer Options			
Option A	Option B	Option C	Option D
Antennae	Proboscis	Wings	Thorax

9.	**2_9** **Science** **6061**	NUTRITION IN ANIMALS	When people are unwell and not able to eat normal food, doctors sometimes feed them from a bottle connected through a tube. What kind of food is given through the tube?		**A**

Answer Options			
Option A	Option B	Option C	Option D
Sugar dissolved in water.	Boiled water.	Milk mixed with water.	Vegetable soup.

10.	**1_3 Science 6673**	NUTRITION IN ANIMALS	Which of these meals would give you most of the nutrients that you need	**B**

Answer Options			
Option A	Option B	Option C	Option D
Meat, milk and a piece of chocolate	Bread, vegetables and fish	Vegetables, fruits and water	Meat, fish and bread

11.	**2_10**	NUTRITION IN ANIMALS	Inadequate intake of	**A**

	Science **4142**		iodine could lead to -		

Answer Options			
Option A	Option B	Option C	Option D
Goiter	Beriberi	Anaemia	Scurvy

12.	**2_10** **Science** **4170**	NUTRITION IN ANIMALS	Which of these foods is rich in protein but has little fat?		**B**

Answer Options			
Option A	Option B	Option C	Option D
Redmeat	Beans	Dairy products	Fish

13.	**2_10 Science 4181**	NUTRITION IN ANIMALS	Energy giving foods like pasta and bread are rich in.		**B**

Answer Options			
Option A	Option B	Option C	Option D
Protein	Carbohydrates	Fat	Vitamin

14.	3_15 Science 3548	Nutrition in Animal	Smallpox, a deadly disease which is believed to have been eradicated, was initially thought to have been spread through the air. Today, we know that it is actually spread through_____.		C

Answer Options			
Option A	Option B	Option C	Option D
water	mosquitoes	contact with an infected person	food

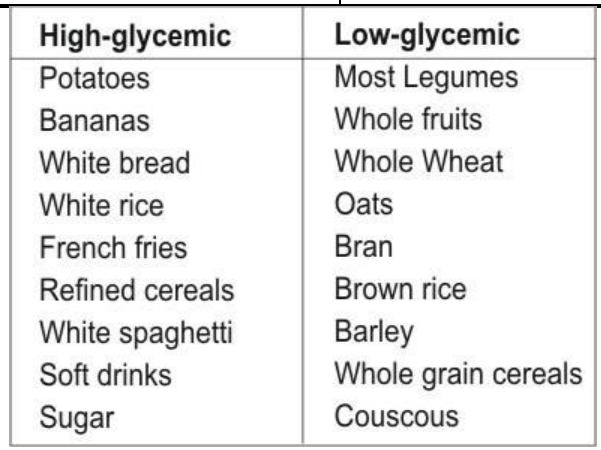
15.	3_15 Science 3553	Nutrition in Animals	Which of the following shows the structures in the correct order from the least complex to the most complex?		D

Answer Options			
Option A	Option B	Option C	Option D
System, organ, tissue, cell	Organ, tissue, cell, system	Cell, system, organ, tissue	Cell, tissue, organ, system

NOTE

Question 11955(FOLDER 4_25) and question 3545 (FOLDER3_15) are same [Question 3545 not included in Q paper]

Set -3 Class – VII Subject : Science

S.N	Folder Number & Question Code	Topic	Question With Answer Options	Image	Correct Answer (Option-A, B,C,D)
1.	3_17 Science 1517	Nutrition in Animals	Some carbohydrate-rich foods, like bread, can be digested almost immediately to glucose. Others, like brown rice, are digested much more slowly. Foods that quickly get digested to glucose are said to have a high glycemic index. Which of these conclusions can be correctly drawn from the table showing high and low glycemic foods?		C

High-glycemic	Low-glycemic
Potatoes	Most Legumes
Bananas	Whole fruits
White bread	Whole Wheat
White rice	Oats
French fries	Bran
Refined cereals	Brown rice
White spaghetti	Barley
Soft drinks	Whole grain cereals
Sugar	Couscous

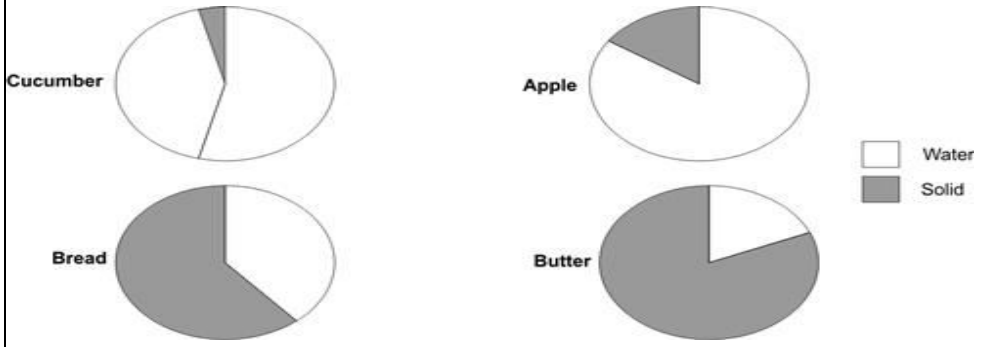
Answer Options

Option A	Option B	Option C	Option D
Cereals are high glycemic foods	Fruits are low glycemic foods	Processed foods are high glycemic foods	Foods made from rice are low glycemic foods

2.	4_23 Science	Nutrition in Animals	The list below gives the items that Sam decided to have for his dinner: 1. Curry with beans and spinach (palak), 2. Salad		B

	9054		with raw fruits and vegetables like carrot and beetroot, 3. Curd, 4. Sprouted moong dal. From the food items given below, what should Sam add to have a balanced diet for his dinner?		

Answer Options			
Option A	Option B	Option C	Option D
Curry with cauliflower	Chapatti	Onion pakoda	Butter milk

3.	4_23 Science 9067	Nutrition in Animals	Water is removed from foods because dried foods can be stored for longer periods without getting spoilt. The graphs given below show the water content originally in four different foods. Water was almost completely removed by passing dry air through each of these four foods. If the weight of each of them after that was 50 grams, which one was the heaviest to start with?		A

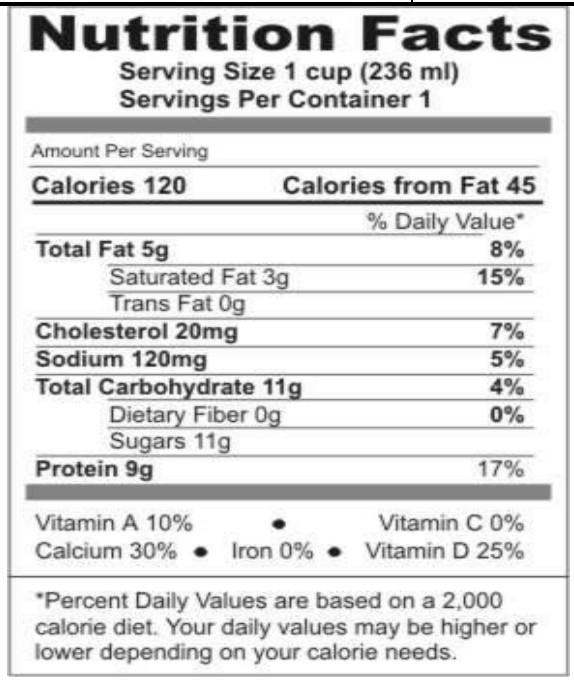
Answer Options			
Option A	Option B	Option C	Option D
Cucumber	Apple	Bread	Butter

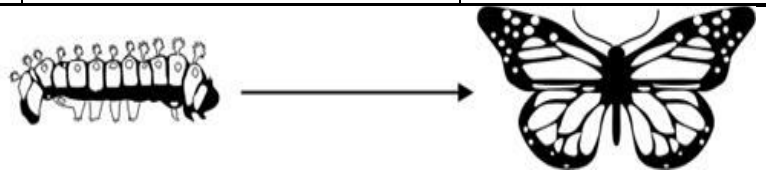
4.	3_17 Science 1526	Nutrition in Animals	In which part of the digestive system does a piece of bread which is eaten get completely broken down into simple sugars?		D

Answer Options

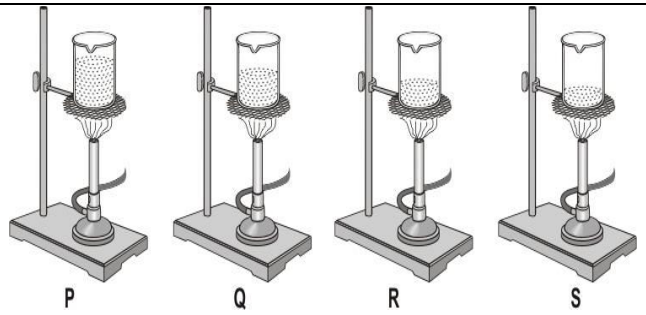
Option A	Option B	Option C	Option D
Stomach	Liver	Large intestines	Small intestines

5.	4_24 Science 10299	Nutrition in Animals	Given below is a label found on a food item. Study it and answer the question. On which of the following food items may this food label be found?		B

		Answer Options				
		Option A	Option B	Option C	Option D	
		oil bottle	milk container	salt packet	bottle of cola	
6.	4_24 Science 10300	Nutrition in Animals	Given below is a label found on a food item. Study it and answer the question. Which nutrient is NOT provided by the food item having the above label?		D
		Answer Options				
		Option A	Option B	Option C	Option D	
		Calcium	Vitamin A	Sugars	Iron	

<table>
<tr><td>7.</td><td>3_17
Science
1510</td><td>Fibre to fabrics</td><td>Which of the following could be 'X' in the table below?</td><td><table><tr><th>Economically useful plants</th><th>Used as a source of food</th><th>Used as a source of fibre</th></tr><tr><td>Jute</td><td>-</td><td>✓</td></tr><tr><td>Banana</td><td>✓</td><td>✓</td></tr><tr><td>Maize</td><td>✓</td><td>-</td></tr><tr><td>X</td><td>✓</td><td>✓</td></tr></table></td><td>D</td></tr>
<tr><td></td><td></td><td colspan="4"><table><tr><td colspan="4">Answer Options</td></tr><tr><td>Option A</td><td>Option B</td><td>Option C</td><td>Option D</td></tr><tr><td>Ground nut</td><td>Mango</td><td>Flax</td><td>Coconut</td></tr></table></td></tr>
<tr><td>8.</td><td>4_25
Science
11875</td><td>Fiber to Fabric</td><td>What is dry cleaning" of clothes?"</td><td></td><td>B</td></tr>
<tr><td></td><td></td><td colspan="4"><table><tr><td colspan="4">Answer Options</td></tr><tr><td>Option A</td><td>Option B</td><td>Option C</td><td>Option D</td></tr><tr><td>putting out the clothes to dry in the sun</td><td>using a liquid other than water to clean</td><td>using water vapour to clean the clothes</td><td>using warm air to clean the clothes</td></tr></table></td></tr>
<tr><td>9.</td><td>2_9
Science
6045</td><td>Fibre to Fabric</td><td>The figure shown here represents which of the following processes?</td><td>  </td><td>B</td></tr>
</table>

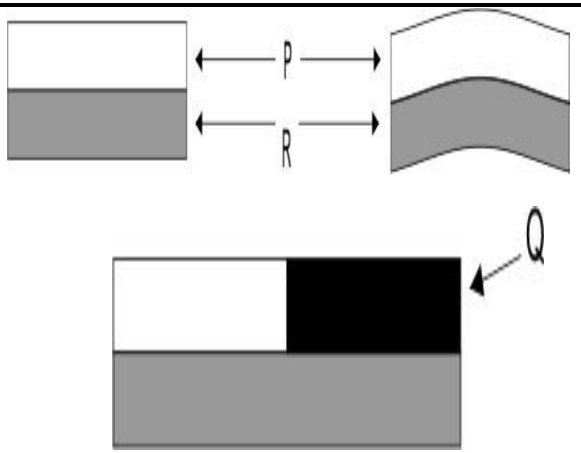
Answer Options			
Option A	Option B	Option C	Option D
Reproduction	Metamorphosis	Food chain	Adaptation

10.	2_10 SCIENCE 4165	HEAT	Study the containers P, Q, R, and S shown below. The temperature of the water in each container is recorded every minute. This experiment is studying the variation in the temperature of water over time for different …..		C

Answer Options			
Option A	Option B	Option C	Option D
shapes of the container	intensities of the burner	volumes of water heated	exposed surface areas

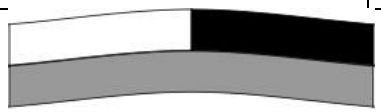
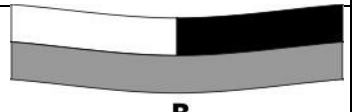
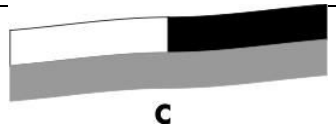
11.	2_9 SCIENCE 6062	HEAT	The maximum and minimum temperature during a 24 hour period in four cities A, B, C and D are shown below. Which of the following is likely to be in or nearest to a desert?	<table><tr><th>City</th><th>Maximum</th><th>Minimum</th></tr><tr><td>A</td><td>42°C</td><td>35°C</td></tr><tr><td>B</td><td>39°C</td><td>18°C</td></tr><tr><td>C</td><td>25°C</td><td>18°C</td></tr><tr><td>D</td><td>20°C</td><td>18°C</td></tr></table>	**B**

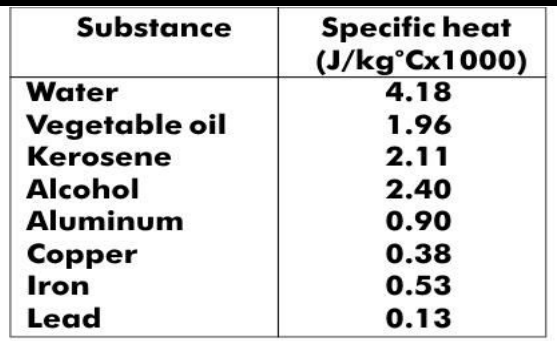
Answer Options			
Option A	Option B	Option C	Option D
A	B	C	D

12.	1_3 SCIENCE 6674	HEAT	Materials expand upon heating. How much a material expands upon heating is given by its coefficient of expansion. There are three metals P, Q and R. Of them, P has the largest coefficient of expansion, and R has the smallest. When a thermostat is made with P and R, this is the shape it takes when heated: Three pieces of P, Q and R are fused together as shown . What shape will it take when		**A**

			heated?		

Answer Options

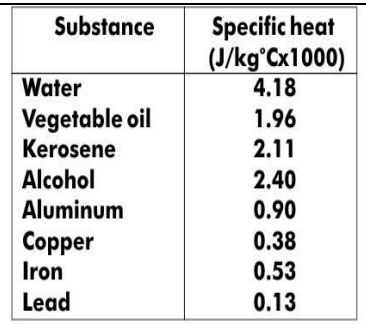
Option A	Option B	Option C	Option D
			

13.	1_3 SCIENCE 6679	HEAT	The specific heat capacity of a substance is the amount of heat required to raise the temperature of 1kg of the substance by 1^0C. The specific heat capacities of a few substances are also given here. Using this information, answer the question…. For STORING thermal energy in solar heating systems, we would need a material that retains heat the longest. Which of these would be most suited		**B**

Substance	Specific heat (J/kg°Cx1000)
Water	4.18
Vegetable oil	1.96
Kerosene	2.11
Alcohol	2.40
Aluminum	0.90
Copper	0.38
Iron	0.53
Lead	0.13

Answer Options

Option A	Option B	Option C	Option D
Aluminum	Water	Copper	Iron

14.	1_3 SCIENCE 6678	HEAT	The specific heat capacity of a substance is the amount of heat required to raise the temperature of 1kg of the substance by 1^0C. The specific heat capacities of a few substances are also given here. Using this information, answer the question .If equal masses each of water, vegetable oil, aluminium and copper are heated uniformly for five minutes, which one of them will record the maximum rise in temperature?	 **Substance** / **Specific heat (J/kg°Cx1000)** Water 4.18 Vegetable oil 1.96 Kerosene 2.11 Alcohol 2.40 Aluminum 0.90 Copper 0.38 Iron 0.53 Lead 0.13	**D**

Answer Options			
Option A	Option B	Option C	Option D
Water	Vegetable oil	Aluminium	Copper

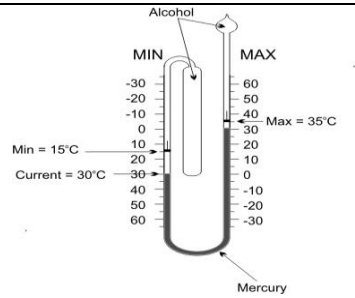
15.	1_3 SCIENCE 6659	HEAT	The boiling point of water is 100^0C at sea level. The boiling point of butane is -1.5^0 C. If we leave liquid butane in a bowl on a table in a room where the temperature is 24^0C, butane will -		**A**

Answer Options			
Option A	Option B	Option C	Option D
Evaporate	Condense	Freeze	Melt

NOTE

Question 11875(FOLDER 4_25) and question 4168 (FOLDER2_10) are same [Question 4168 not included in Q paper]

SET- 4 **CLASS VII** **TOPIC -HEAT (CH.4)** **SUBJECT -SCIENCE**

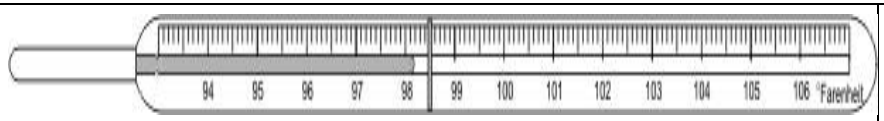
S.N	Folder Number & Question Code	Topic	Question With Answers Options	Image (If Any)	Correct Answer (Option – A, B, C, D)
1.	1_3 SCIENCE 6646	**HEAT (CHAPTER -4)**	A Maximum-Minimum thermometer has two stems which record the highest and lowest temperatures during a period of time. A small metallic piece in each stem indicates the temperature. What are the MAXIMUM, MINIMUM AND CURRENT TEMPERATURES shown in this thermometer (Fig.2)	 Fig. 1 Fig.2	**B**

Answer Options			
Option A	**Option B**	**Option C**	**Option D**
55^0C, 35^0C, 45^0C	45^0C, 25^0C, 35^0C	55^0C, 25^0C, 35^0C	45^0C, 25^0C, 30^0C

2.	1_3 SCIENCE 7357	**HEAT**	Mercury and Alcohol are two common liquids used in thermometers. The boiling point of MERCURY is 357 ^{0}C, while its freezing point is -39 ^{0}C. For ALCOHOL, the boiling point is 78 ^{0}C and the freezing point is -80^{0}C. It is required in a laboratory to make measurements which are in the region of -60^{0}C. Which type of thermometer would be more suitable?		**D**

Answer Options

Option A	**Option B**	**Option C**	**Option D**
A MERCURY thermometer since the freezing point of mercury is higher than -60^{0}C.	A MERCURY thermometer since the boiling point of mercury is as high as 357^{0}C.	An ALCOHOL thermometer since the boiling point of alcohol is lower at 78^{0}C.	An ALCOHOL thermometer since the freezing point of alcohol is lower than -60^{0}C

3.	1_3 SCIENCE 7356	**HEAT**	Which of these readings CANNOT be taken with the thermometer shown?		A

Answer Options

Option A	**Option B**	**Option C**	**Option D**
92^{o}F	98.4^0 F	100.1^{0}F	106^{0}F

4.	1_3 SCIENCE 7355	**HEAT**	The question is based on this experiment: Two identical vessels are taken and painted white and black respectively. Then the same quantity of water is poured into each one of them. Both the vessels are left in the sun, and the temperature is noted regularly. The water temperature in the vessel painted white is recorded every five minutes as shown in the table below. What is the temperature in the vessel likely to be 30 minutes after it was left in the sun? (Select the closest temperature)	<table><tr><th colspan="2">Water Temperature in WHITE Vessel</th></tr><tr><td>After 5 minutes</td><td>17°C</td></tr><tr><td>After 10 minutes</td><td>20°C</td></tr><tr><td>After 15 minutes</td><td>23°C</td></tr><tr><td>After 20 minutes</td><td>25°C</td></tr></table>	**C**

Answer Options

Option A	**Option B**	**Option C**	**Option D**
20 ^{0}C	25 ^{0}C	29 ^{0}C	35 ^{0}C

5.	1_3 SCIENCE 7354	**HEAT**	The question is based on this experiment: Two identical vessels are taken and painted white and black respectively. Then the same quantity of water is poured into each one of them. Both the vessels are left in the sun, and the temperature is noted regularly. The water is which vessel is likely to get hotter and why?		**B**

Answer Options

Option A	**Option B**	**Option C**	**Option D**
The white vessel as white reflects more heat than black.	The black vessel as black absorbs more heat than white	The white vessel as white absorbs more heat than black.	It will be same in both vessel as the material is the same.

6.	1_3 SCIENCE 7349	**HEAT**	The specific heat capacity of a substance is the heat required to raise the temperature of 1kg of the substance by 1^0C .The specific heat capacity of water is 4187 joules per degree celsius per kilogram. A bucket contains 4kg of water. What is the specific heat capacity of water in the bucket?		**A**

Answer Options

Option A	**Option B**	**Option C**	**Option D**
4187 J/^{0}C/kg	16748 J/^{0}C/kg	1047 J/^{0}C/kg	8374 J/^{0}C/kg

7.	1_3 SCIENCE 7343	**HEAT**	Vessel P contains 150 grams of candle wax, while vessel Q contains 3 kilograms of the same material. Both are heated and start melting. Which of the following will be true about the temperature at which the wax just STARTS melting, and the temperature at which the wax melts COMPLETELY		**C**

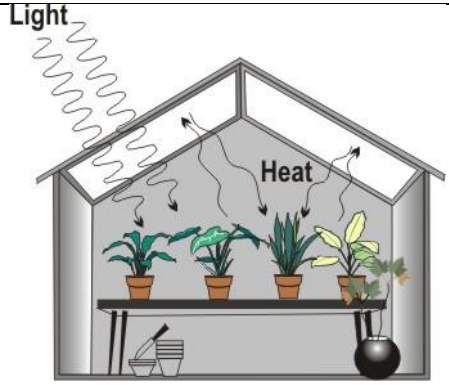
	Temperature at which wax STARTS melting	**Temperature at which wax just melts COMPLETELY**
A.	Same for both	Lower for P
B.	Lower for P	Lower for P
C.	Same for both	Same for both
D.	Lower for P	Same for both

Answer Options

Option A	**Option B**	**Option C**	**Option D**
A	B	C	D

8.	1_3 SCIENCE 7329	**HEAT**	3 ice cubes of similar shape and size were kept on three different surfaces - glass, copper and concrete. The first to completely melt was the cube on the copper surface, while the one on the glass surface melted last. Arrange Copper, Glass and Concrete from WORST heat conductor to BEST.		**B**

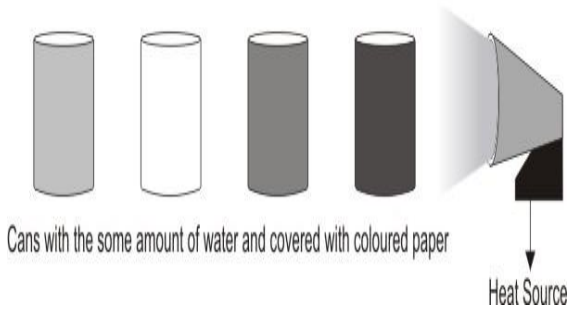
Answer Options			
Option A	**Option B**	**Option C**	**Option D**
copper, glass, concrete	glass, concrete, copper	copper, concrete, glass	concrete, copper, glass

9.	3_17 Science 1505	**Heat**	The structure shown here is called a greenhouse. Greenhouses have glass panels that let in light but keep heat from escaping. In which regions would greenhouses of this type be used to grow plants?		**A**

Answer Options			
Option A	Option B	Option C	Option D
Regions that are very cold	Regions that are very hot	Regions that are very humid	Regions that are very dry

10.	3_17 Science 1497	**Heat**	In a thermal power station coal is used to produce energy. Which of these shows the correct sequence of transformation of energy in a thermal power station?		**D**

Answer Options			
Option A	**Option B**	**Option C**	**Option D**
Mechanical -> Heat -> Electrical -> Chemical	Chemical -> Electrical -> Heat -> Mechanical	Heat -> Chemical -> Mechanical -> Electrical	Chemical -> Heat -> Mechanical -> Electrical

11	3_17 Science 1520	**Heat**	Kamesh conducts the following activity to check if colour has any effect on heat absorption.He takes four identical cans with the same amount of water but covered with different coloured papers and places them near a heat source as shown in the figure. The temperature of the water in the cans is measured at regular intervals.The MISTAKE in Kamesh's experiment relates to:		**B**

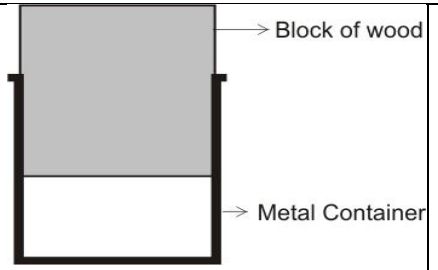
Answer Options			
Option A	Option B	Option C	Option D
the amount of water being the same in each can	the positioning of the cans with respect to the heat source	the use of paper of different colours for covering the cans	taking temperature readings at the same time in all the cans

12.	3_17 Science 1498	**Heat**	Which of these will definitely have a freezing point of 0 degree C and a boiling point of 100degree C?		**C**

Answer Options			
Option A	Option B	Option C	Option D
Rain water	River Water	Distilled water	All the aboves

13.	3_15 Science 3547	**Heat**	The temperature inside a refrigerator (not in the freezer compartment) is likely to be around_____.		C

Answer Options			
Option A	Option B	Option C	Option D
-4 °Celsius	0° Fahrenheit	5°Celsius	100° Fahrenheit

14.	3_15 Science 3552	**Heat**	The diagram below shows a block of wood stuck in a metal container. Which of these is the best way to remove the block of wood undamaged?		D

Answer Options			
Option A	Option B	Option C	Option D
Burn the wood.	Drill holes in the metal container	Submerge the container in water.	Heat the metal container.

15.	3_15 Science 3576	**Heat**	In which of these following cases is energy released?		**B**

Answer Options			
Option A	Option B	Option C	Option D
when water is boiled	when wood is burned	when an object is dropped	when a plant makes food

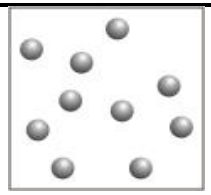
SET- 5 CLASS VII TOPIC -HEAT (CH.4) SUBJECT -SCIENCE

S.N	Folder Number & Question Code	Topic	Question With Answers Options	Image (If Any)	Correct Answer (Option – A, B, C, D)
1.	3_16 Science 2423	**Heat (CHAPTER -4)**	How do solar cells (fitted in satellites) work in space even though it is black all around?		**A**

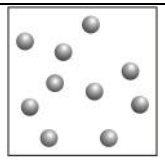
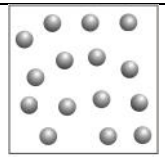
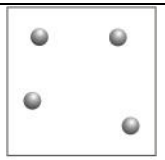
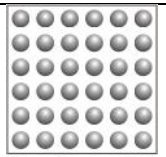
Answer Options			
Option A	Option B	Option C	Option D
Even though it is black around, sunlight is present and charges the solar cells as on earth.	There is no sunlight, but the solar cells are charged by the light from the stars.	The cells are charged on Earth for life long use and do not need to be charged in space.	They get charged during the day time in space, when it is not black all around.

S.N	Folder Number & Question Code	Topic	Question With Answers Options	Image (If Any)	Correct Answer (Option – A, B, C, D)
2.	3_16 Science 2426	**Heat**	Mayank visited a power plant and saw this board outside. What type of plant must it have been?		B

Answer Options

		Option A	Option B	Option C	Option D
		Thermal power plant	Nuclear power plant	Gas-based power plant	It could have been any type of power plant.
3.	3_15 Science 2428	**Heat**	The picture shows the molecular arrangement of a material X. If the material is subjected to increase in temperature, what will be the likely change in its molecular arrangement?		C

Answer Options

Option A	Option B	Option C	Option D
 A.	 B.	 C.	 D.

4.	4_24 Science 10269	**Heat**	Nitrogen condenses at -196 deg C and freezes at -210 deg C. At which of the following temperatures can you store nitrogen in LIQUID form?		C

Answer Options

Option A	Option B	Option C	Option D
-225 deg C	-190 deg C	-200 deg C	0 deg C

5.	4_24 Science	**Heat**	The boiling point of water at the top of Mount Everest may be which of the following?		C

	10281	Answer Options			
		Option A	Option B	Option C	Option D
		112deg C	100 deg C	69 deg C	0 deg C
6.	4_24 Science 10282	**Heat**	Which of the following could be placed in a glass tumbler before pouring hot milk into it to reduce the chances of the tumbler cracking due to the heat?		B
		Answer Options			
		Option A	Option B	Option C	Option D
				 C.	
7.	4_24 Science 10289	**Heat**	Why is it hotter in summer than in winter?		**B**
		Answer Options			
		Option A	Option B	Option C	Option D
		this is due to the Earth being closer to the Sun in summer.	this is due to the tilt in the axis of the Earth.	this is due to the rotation of the Earth on its axis.	this is due to hot winds that blow on the Earth's surface.

8.	**4_25 Science** **11948**	**Heat**	When solid candle wax is heated, it becomes liquid. The molecules		**A**

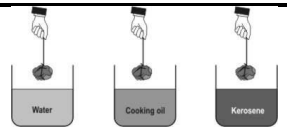
Answer Options

Option A	**Option B**	**Option C**	**Option D**
Absorb heat and move apart.	absorb heat and come together	Release heat and move apart.	Release heat and come together.

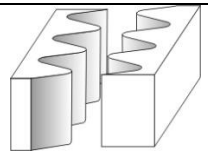
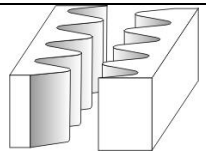
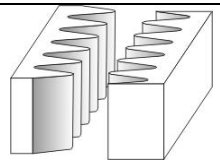
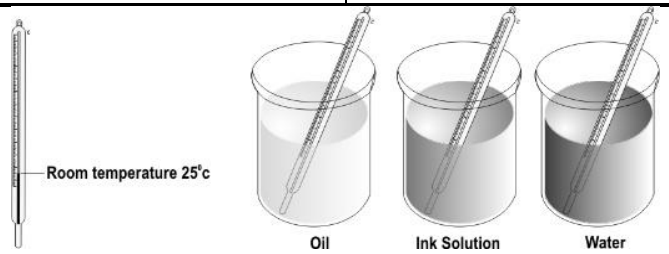
9.	**4_25 Science** **11886**	**Heat**	What is the difference between evaporation and boiling?		B

Answer Options

Option A	**Option B**	**Option C**	**Option D**
There is no difference - they are exactly the same.	Evaporation, unlike boiling, occurs at all temperatures.	In evaporation, unlike in boiling, there is no state change.	In boiling, unlike in evaporation, the liquid volume reduces.

10.	4_24 Science 10287	**Heat**	Rahul ties a string around a stone. He takes three beakers with equal volumes of water, cooking oil and kerosene. He then immerses the stone completely in each of the 3 beakers, one after the other. What is he likely to find?		C

Answer Options

			Option A	Option B	Option C	Option D
			The level of the liquid falls by different amounts in the three beakers.	There is an unequal increase in the level of the three liquids.	There is an equal increase in the level of the three liquids.	The level of the liquid does not change in any of the three beakers.
11.	4_23 Science 9064	**Heat**	The rate of cooling of a piece of metal increases with an increase in its exposed surface area. 3 identical blocks of aluminum are used to make three different pieces. Which of these will lose heat fastest?			C
			Answer Options			
			Option A	Option B	Option C	Option D
						**All three will lose heat equally fast.**
12.	4_23 Science 9068	**Heat**	Three beakers containing different liquids are placed in a room where the room temperature is about 25°C. What would be the correct set of temperatures of the three liquids?			C

	Beaker P	Beaker Q	Beaker R
A	> 25 °C	= 25 °C	= 25 °C
B	= 25 °C	< 25 °C	< 25 °C
C	= 25 °C	= 25 °C	= 25 °C
D	< 25 °C	< 25 °C	< 25 °C

Answer Options			
Option A	Option B	Option C	Option D
A	B	C	D

13.	4_23 Science 9075	**Heat**	Which of these metals remains a liquid over the widest range of temperature?	The table below gives the melting and boiling points of a few metals. Use it to answer the question.	D

Name of the metal	Melting point (°C)	Boiling point (°C)
Silver	962	2212
Tin	232	2270
Gold	1062	2807
Aluminium	660	2467
Tungsten	3410	6170
Lead	328	1740

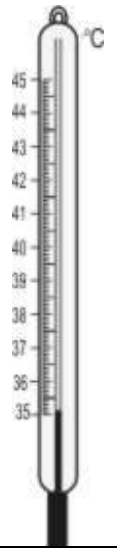
Answer Options			
Option A	Option B	Option C	Option D
Silver	Tin	Aluminum	Tungsten

14.	4_23 Science 9076	**Heat**	Soft solders are filler metals that melt and flow below 430°C. Which pair of metals would be most suitable for soft solders?	The table below gives the melting and boiling points of a few metals. Use it to answer the question. **Name of the metal** / **Melting point (°C)** / **Boiling point (°C)** Silver / 962 / 2212 Tin / 232 / 2270 Gold / 1062 / 2807 Aluminium / 660 / 2467 Tungsten / 3410 / 6170 Lead / 328 / 1740	C

Answer Options			
Option A	Option B	Option C	Option D
Silver and gold	Tin and aluminum	Tin and lead	Aluminum and Tungsten

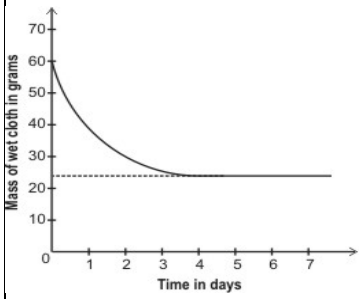
15.	4_24 Science 10313	Heat	Four thermometers are shown below. Which of these would be the MOST appropriate to measure our body temperature?		**B**

Answer Options			
Option A	Option B	Option C	Option D

			 °C 100 90 80 70 60 50 40 30 20 10 0	 °C 45 44 43 42 41 40 39 38 37 36 35	 °C 10 8 6 4 2 0 -2 -4 -6 -8 -10	 °C 35 34 33 32 31 30 29 28 27 26 25

SET- 6 **CLASS VII** **SUBJECT -SCIENCE**

TOPIC -HEAT (CH.4) , ACID,BASES AND SALTS (CH.5), PHYSICAL AND CHEMICAL CHANGES (CH.6)

S.N	Folder Number & Question Code	Topic	Question With Answers Options	Image (If Any)	Correct Answer (Option – A, B, C, D)
1.	4_25 Science **11940**	CHAPTER -4 Heat	A wet cloth was placed on a balance and left for several days. The change in its mass is shown in the graph below: What was the mass of WATER in the cloth at the start of the experiment?		**B**

Answer Options			
Option A	Option B	Option C	Option D
60g	36g	24g	10g

2.	3_16 Science 2439	**Heat**	Identify this instrument.		**B**

Answer Options			
Option A	Option B	Option C	Option D
Compass	Thermometer	Car tyre pressure indicator	Speedometer

3.	3_16 Science 2442	**Heat**	On a warm day, Suraj put a glass of cold water on the table and measured its temperature after every 2 minutes using an accurate thermometer. He made the table given below but forgot to record one reading. The temperature at 10:24 is most likely to be	<table><tr><td>Time</td><td>10:16</td><td>10:18</td><td>10:20</td><td>10:22</td><td>10:24</td><td>10:26</td></tr><tr><td>Temperature (°C)</td><td>10</td><td>11.5</td><td>13</td><td>14.5</td><td>?</td><td>17</td></tr></table>	**C**

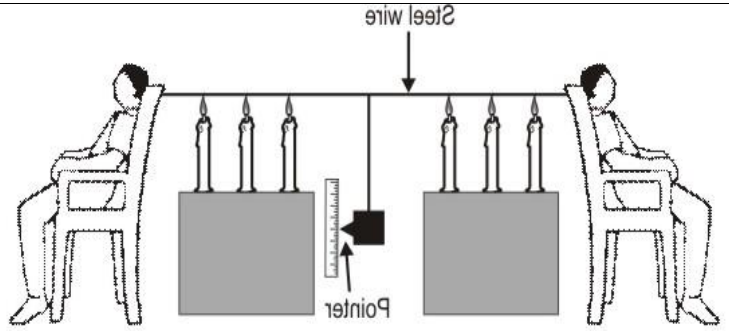
Answer Options			
Option A	Option B	Option C	Option D
14.5 (^{0}C)	15.5 (^{0}C)	16 (^{0}C)	17 (^{0}C)

4.	3_17 Science 1521	**Heat**	When a substance boils, it absorbs energy from the burning fuel. Which of these happens when a moth ball sublimes?		B

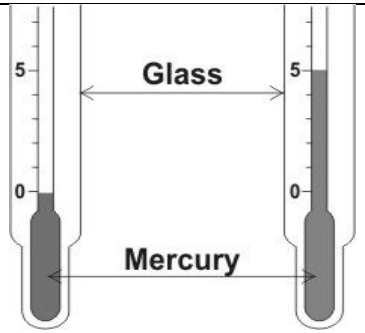
Answer Options			
Option A	Option B	Option C	Option D
Energy is neither absorbed nor released in the process.	The moth ball absorbs energy from its surroundings	The moth ball releases energy to its surroundings.	The moth ball releases energy specifically to the air around it.

5.	3_17 Science 1527	**Heat**	An inventor claims that he has developed a fuel that is non-polluting and can be used as a petrol alternative. Which of these factors is NOT likely to influence its acceptance?		**D**

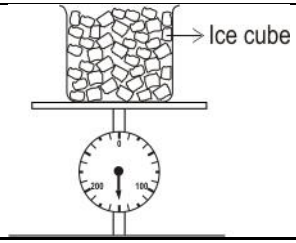
Answer Options			
Option A	Option B	Option C	Option D
Its performance in independent verification tests.	The extent of change needed in existing car engines.	The cost of the new fuel in comparison to the cost of petrol.	Knowledge of the actual constituents of the new fuel.

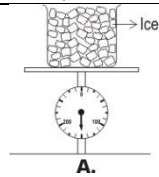
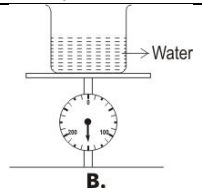
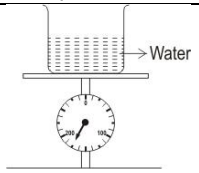
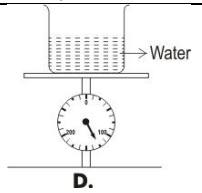
6.	3_17 Science 1528	**Heat**	In the experiment shown a steel wire is tied to two chairs and kept taut. Two students sit, one on each chair. A weight is attached to the long wire with the help of a string and a pointer is attached to the weight to show the reading. What will happen to the arrow when the candles are lit?		**B**

Answer Options			
Option A	Option B	Option C	Option D
It will move up	It will move down	It will remain at the same position	It will move up, then down" "

7.	3_16 Science 2447	**Heat**	Most substances expand when heated. See the picture of a thermometer before and after being heated slightly. What happens to the mercury and the glass when heated?		**D**

Answer Options			
Option A	Option B	Option C	Option D
The mercury expands and the glass contracts.	The mercury expands; the glass neither expands nor contracts.	The mercury neither expands nor contracts; the glass contracts.	Both the mercury and the glass expand.

8.	3_15 Science 3579	Heat	Karuna takes some ice cubes from a freezer and places it in a bowl on a weighing scale. Which of these would show the position after 30 minutes?		**B**

Answer Options			
Option A	Option B	Option C	Option D
 **A.**	 **B.**		 **D.**

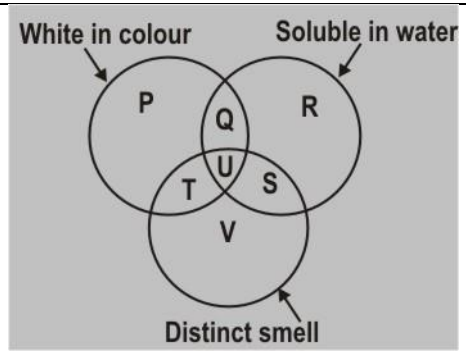
09.	3_15 Science 3565	**Acids, Bases and Salts** **(Chapter -5)**	Students in a laboratory are told not to taste any chemicals (even common salt) in the laboratory. What is the MAIN reason?		**B**

Answer Options			
Option A	Option B	Option C	Option D
The chemicals used in the laboratory are not pure.	Chemicals may have got mixed or wrongly labelled.	Chemicals are very expensive and should not be wasted.	The chemicals may get spoilt if they are touched.

10.	1_3 Science 7350	ACIDS,BASES & SALTS (Chapter -5)	Which of these acids contains nitrogen?		**D**

Answer Options

Option A	**Option B**	**Option C**	**Option D**
Sulphuric acid (H_2SO_4)	Acetic acid (CH_3COOH)	Hydrochloric acid (HCl)	Nitric acid (HNO_3)

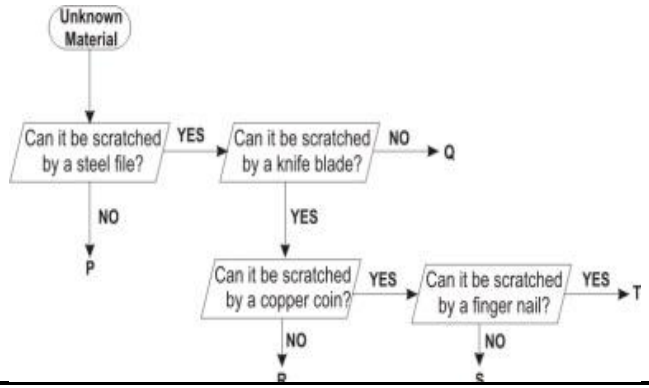
11.	3_17 Science 1516	Acids , Bases & Salts (Chapter -5)	The three circles represent three types of substance as indicated. In which region of this figure should common salt be placed?		**B**

Answer Options

Option A	Option B	Option C	Option D
P	Q	R	S

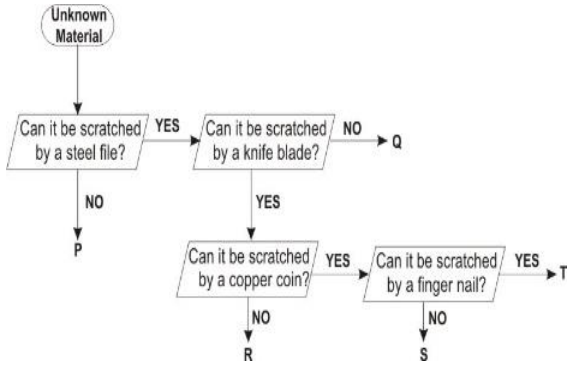
<table>
<tr>
<td>12.</td>
<td>4_23
Science

9038</td>
<td>Acids, Bases & Salt

(Chapter -5)</td>
<td>The hardness of a mineral represented by letter 'Q' is between</td>
<td>The Mohs Hardness scale represents the hardness of materials. Harder materials correspond to higher numbers in the scale. Harder materials can scratch softer materials. See the table below showing the hardness values of certain materials. Study the flow chart and answer the question.
 

<table>
<tr><th>Material</th><th>Hardness value</th></tr>
<tr><td>Finger nail</td><td>2.5</td></tr>
<tr><td>Copper coin</td><td>3.0</td></tr>
<tr><td>Knife blade</td><td>5.5</td></tr>
<tr><td>Steel file</td><td>6.5</td></tr>
</table>
<table>
<tr><td colspan="4">Answer Options</td></tr>
<tr><td>Option A</td><td>Option B</td><td>Option C</td><td>Option D</td></tr>
<tr><td>7 and 8</td><td>6.5 and 7</td><td>5.5 and 6.5</td><td>3 and 5.5</td></tr>
</table></td>
<td>C</td>
</tr>
<tr>
<td>13.</td>
<td>4_23
Science

9039</td>
<td>Acids, Bases & Salts

(Chapter -5)</td>
<td>Which letter represents the softest mineral?</td>
<td>The Mohs Hardness scale represents the hardness of materials. Harder materials correspond to higher numbers in the scale. Harder materials can scratch softer materials. See the table below showing the hardness values of certain materials. Study the flow chart and answer the question.
 

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<tr><td>Steel file</td><td>6.5</td></tr>
</table></td>
<td>A</td>
</tr>
</table>

		Answer Options			
		Option A	Option B	Option C	Option D
		T	S	R	Q

14.	3_16 Science 2405	Physical and chemical changes (Chapter -6)	Which of the following will result in a chemical change?		**A**

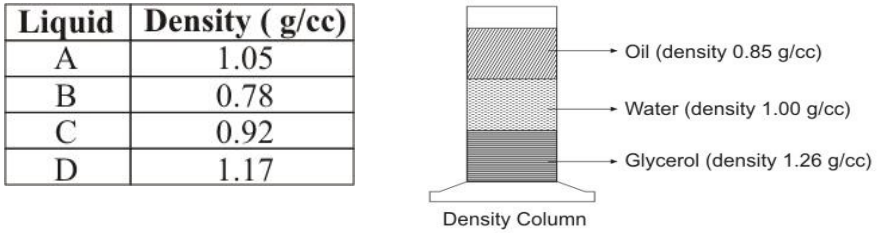
Answer Options			
Option A	Option B	Option C	Option D
Adding curd to milk	Heating candle wax	Mixing salt and water	Adding water to milk

15.	3_16 Science 2416	Physical and chemical changes	Brass, an alloy of copper and zinc, is said to be a mixture, not a compound. Why is that?		**B**

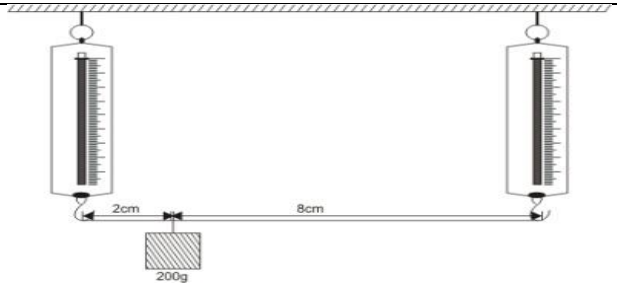
Answer Options			
Option A	Option B	Option C	Option D
Different pieces even from the same brass sample always have different physical properties	No new molecule is formed or exists in brass as compared to copper and zinc.	It is easy to perfectly separate brass into its constituents - copper and zinc.	A metal cannot react chemically to form a compound with any other element.

Set- 7 Subject -Science Class -VII

Topic- Physical and Chemical Changes (Chapter -6)

S.N	Folder Number & Question Code	Topic	Question With Answers Options	Image (If Any)	Correct Answer (Option – A, B, C, D)
1.	3_15 Science 3574	Physical and Chemical Changes	Using the density column and the data table, predict which of these will FLOAT on the oil?		B

Answer Options			
Option A	Option B	Option C	Option D
Sample A	Sample B	Sample C	Sample D

2.	3_15 Science 3575	Physical and Chemical Changes	Two identical spring scales are arranged as shown. If a weight is suspended as shown in the figure what will happen?		**A**

Answer Options

Option A	Option B	Option C	Option D
Spring on the left will stretch more.	Spring on the right will stretch more.	Both springs will stretch the same distance.	One cannot tell which spring will stretch more.

3.	3_15 Science 3542	**Physical and Chemical Changes**	Which of the following is NOT a cyclic change?		A

Answer Options

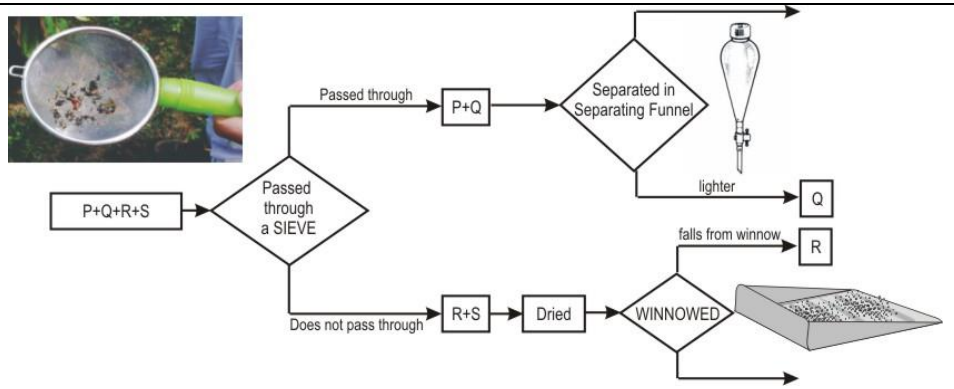
Option A	Option B	Option C	Option D
formation of a rainbow	ocean tides	the phases of the moon	the seasons of the year

4	3_15 Science 3549	**Physical and Chemical Changes**	Which of the following is a chemical change?		**C**

Answer Options			
Option A	Option B	Option C	Option D
Grinding of rice	Breaking of a window pane	A bud changing into a flower	Powdering of sugar crystals

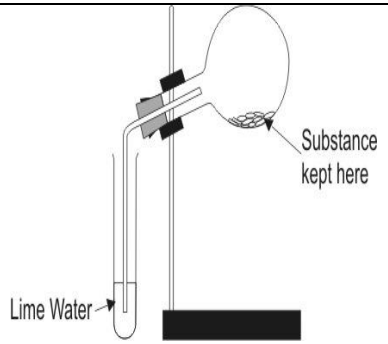
5.	3_15 Science 3555	**Physical and Chemical Changes**	Distilled water is called pure because_____.		**B**

Answer Options			
Option A	Option B	Option C	Option D
it contains dissolved salts	it boils at exactly 100degree C and freezes at exactly 0degreeC	it contains dissolved oxygen	it can be produced only in a laboratory

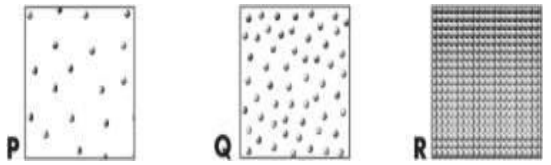
6.	3_17 Science 1525	**Physical and Chemical Changes**	The flow chart gives the method of separation of four substances P, Q, R and S of which one is water. What are P, Q, R and S?	 |	P	Q	R	S
---	---	---	---	---
A.	Water	Tea leaves	Wood shavings	Ink
B.	Sand	Sugar	Water	Milk
C.	Water	Cooking oil	Wheat husk	Wheat grains
D.	Water	Instant coffee powder	Dry leaves	Detergent powder		**C**

Answer Options

Option A	Option B	Option C	Option D
A	B	C	D

7.	3_16 Science 2444	**Physical and Chemical Changes**	In the arrangement shown, which of the following materials will make lime water turn milky when kept for a few days?		**A**

Answer Options			
Option A	Option B	Option C	Option D
Damp boiled rice	Dry wood pieces	Roasted peanuts	Charcoal

8.	4_24 Science 10266	Physical and Chemical Change	In the figure below, P, Q and R represent three different physical states of a substance. A direct change from the state represented by R to that represented by P would be _____.		D

Answer Options			
Option A	Option B	Option C	Option D
evaporation	condensation	melting	sublimation

9.	4_24 Science 10279	**Physical and Chemical Change**	Which of the following can be classified as a chemical change?		**A**

Answer Options			
Option A	Option B	Option C	Option D
lighting of a matchstick	melting of ice	condensation of water	separation of salt from water

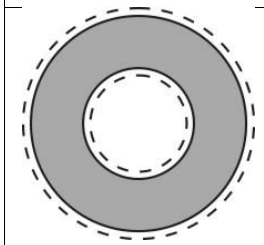
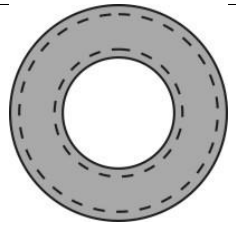
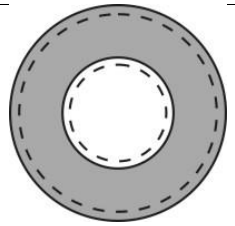
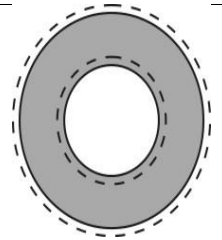
10.	**4_25 Science** **11978**	**Physical and Chemical Changes**	Students in a laboratory are told not to taste any chemicals (even common salt) in the laboratory. What is the MAIN reason?		**B**

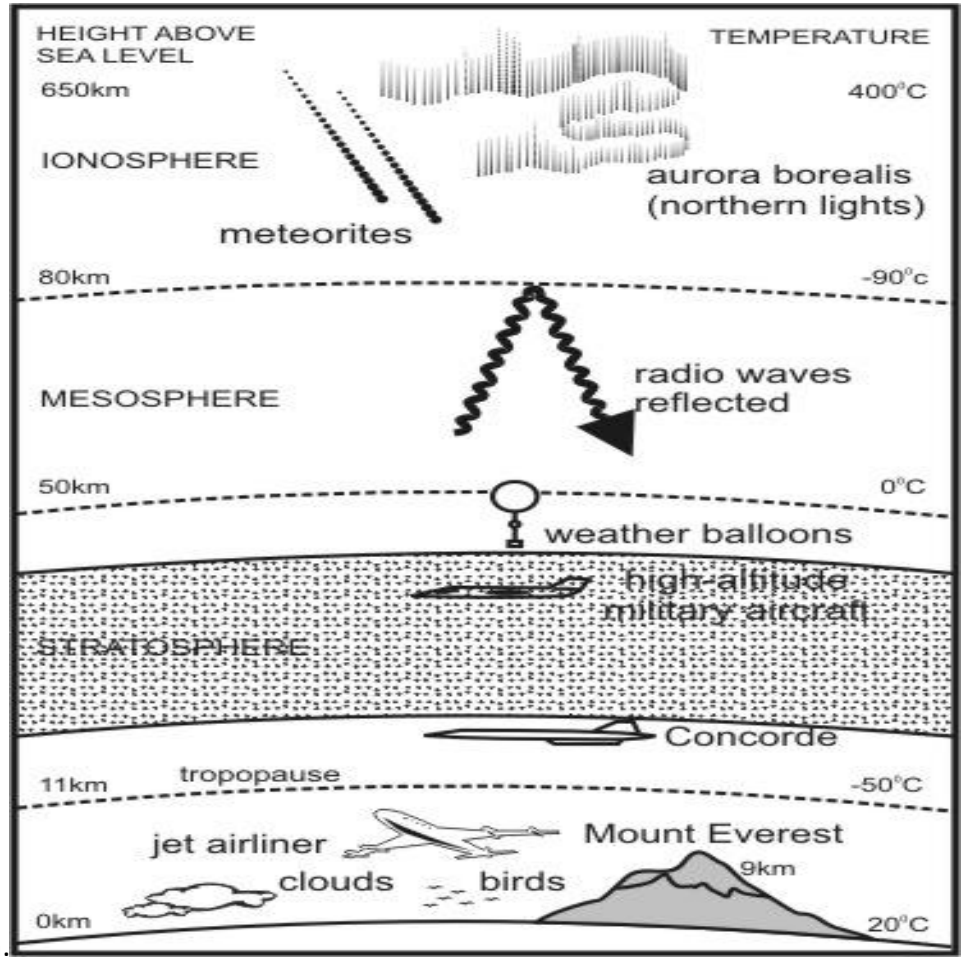
Answer Options			
Option A	Option B	Option C	Option D
The chemicals bought for the laboratory are not pure.	Chemicals may have got mixed or wrongly labelled.	Chemicals are very expensive and should not be wasted.	The chemicals may get spoilt if they are touched.

11.	4_25 Science 11885	Physical and Chemical Changes	Which of these is a chemical change?		**C**

Answer Options			
Option A	Option B	Option C	Option D
mixing sand in water	magnetizing a piece of iron	a copper container getting tarnished	evaporation of water

<table>
<tr><td>12.</td><td>3_15
Science

3570</td><td>Physical and Chemical Changes</td><td>The data suggests that</td><td>The period of development in the mother's womb before birth is called the gestation period. Study the gestation periods and life spans of some animals and answer the question
<table><tr><th>Animal</th><th>Gestation Period</th><th>Life Span</th></tr><tr><td>Man</td><td>270 days</td><td>80 - 100 years</td></tr><tr><td>Bear</td><td>230 days</td><td>15 - 30 years</td></tr><tr><td>Horse</td><td>336 days</td><td>25 - 30 years</td></tr><tr><td>Dog</td><td>63 days</td><td>16 - 18 years</td></tr><tr><td>Cat</td><td>60 days</td><td>10 - 15 years</td></tr><tr><td>Elephant</td><td>624 days</td><td>70 - 90 years</td></tr><tr><td>Mouse</td><td>20 days</td><td>2 - 3 years</td></tr><tr><td>Lion</td><td>108 days</td><td>20 - 25 years</td></tr></table></td><td>A</td></tr>
<tr><td></td><td></td><td colspan="4">Answer Options<table><tr><th>Option A</th><th>Option B</th><th>Option C</th><th>Option D</th></tr><tr><td>there is no relation whatsoever between gestation period and life span.</td><td>the longer the gestation period, the shorter the life span with some exceptions.</td><td>the longer the gestation period, the longer the life span with some exceptions.</td><td>animals with the shortest and longest gestation periods have longer life spans.</td></tr><tr><td></td><td></td><td></td><td></td></tr></table></td></tr>
<tr><td>13.</td><td>1_3
SCIENCE
7332</td><td>PHYSICAL & CHEMICAL CHANGES</td><td>A metallic circular disc having a hole as shown, is heated. What would it look like when it expands after heating (shown by the dotted lines)?</td><td>No Image</td><td>D</td></tr>
<tr><td></td><td></td><td colspan="4">Answer Options<table><tr><th>Option A</th><th>Option B</th><th>Option C</th><th>Option D</th></tr><tr><td>  </td><td>  </td><td>  </td><td>  </td></tr></table></td></tr>
</table>

14.	3_16 Science 2436	Physical and Chemical changes	In which part of the atmosphere is the ozone layer?	The earth's atmosphere is divided into different layers - the stratosphere, mesosphere and ionosphere as shown here. Study the figure and answer the question. 	B

Answer Options

Option A	Option B	Option C	Option D
below the stratosphere	in the stratosphere	in the mesosphere	in the ionosphere

15.	3_15 Science 3571	Physical and Chemical Changes	Among the animals in the table, which have gestation periods more than 6 months?	The period of development in the mother's womb before birth is called the gestation period. Study the gestation periods and life spans of some animals and answer the question	**C**

Animal	Gestation Period	Life Span
Man	270 days	80 - 100 years
Bear	230 days	15 - 30 years
Horse	336 days	25 - 30 years
Dog	63 days	16 - 18 years
Cat	60 days	10 - 15 years
Elephant	624 days	70 - 90 years
Mouse	20 days	2 - 3 years
Lion	108 days	20 - 25 years

Answer Options			
Option A	Option B	Option C	Option D
Only elephants	Only horses and elephants	Only horses, elephants, men and bears	Only horses, elephants, men, lions and bears

SET-8 CLASS-VII SUBJECT- SCIENCE

TOPIC - PHYSICAL AND CHEMICAL CHANGES (Chapter- 6)

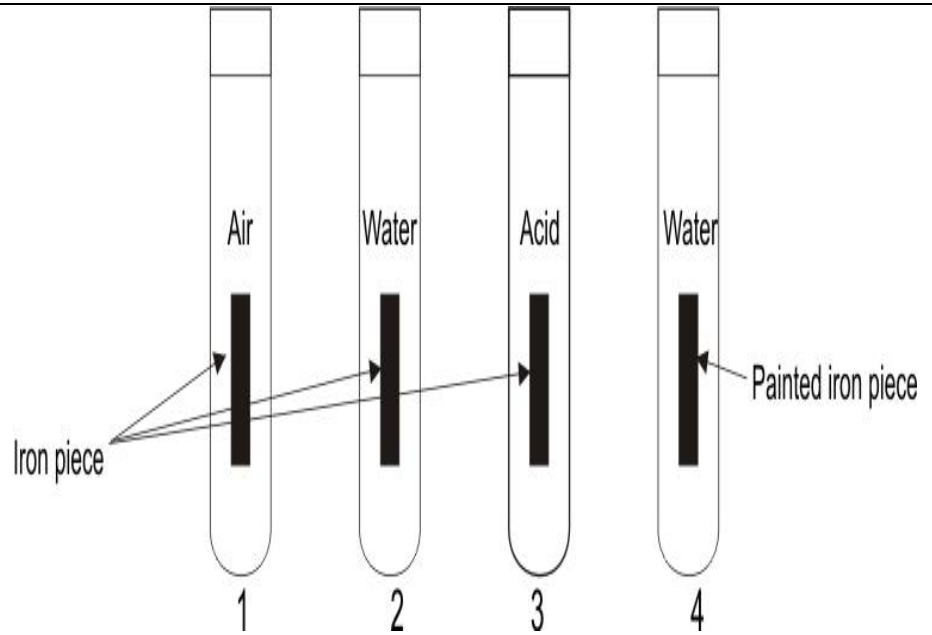
WEATHER,CLIMATE AND ADAPTATIONS TO THE ANIMALS TO CLIMATE (Chapter- 7)

<table>
<tr><td>1.</td><td>1_3
SCIENCE
7346</td><td>PHYSICAL & CHEMICAL CHANGES</td><td>Identify the chemical change among the following:</td><td>No image</td><td>C</td></tr>
<tr><td colspan="6">
<table>
<tr><th colspan="4">Answer Options</th></tr>
<tr><th>Option A</th><th>Option B</th><th>Option C</th><th>Option D</th></tr>
<tr><td>Mixing sand in water.</td><td>Magnetizing a piece of iron.</td><td>A copper container getting tarnished</td><td>Evaporation of water</td></tr>
</table>
</td></tr>
</table>

2.	2_9 SCIENCE	PHYSICAL & CHEMICAL CHANGES	When heated candle wax changes from a solid into a liquid. The molecules_____.	No image	**A**

	6064	Answer Options

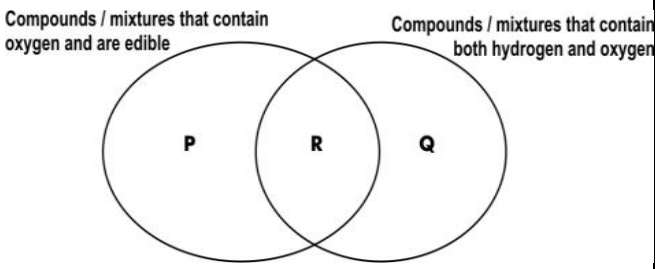
Option A	Option B	Option C	Option D
Absorb heat and move apart.	Absorb heat and come together.	Release heat and move apart.	Release heat and come together.

3.	2_10 Science 4151	**(Chapter- 5)** PHYSICAL & CHEMICAL CHANGES	In an experiment to investigate corrosion, a piece of iron metal is placed under different conditions. Each of the test tubes shown here is sealed completely and left for a few weeks. Arrange them in the order of most to least corroded pieces of iron metal at the end of the experiment.		**A**

Answer Options			
Option A	Option B	Option C	Option D
3, 2, 1, 4	1, 2, 3, 4	3, 1, 4, 2	2, 4, 1, 3

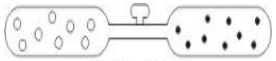
4.	4_23 Science 9041	**Physical & Chemical Changes**	By mistake about 500 g of rajma seeds and 300 g of moong dal have got mixed up. Which of these methods is likely to be most effective for separating them?		C

Answer Options			
Option A	Option B	Option C	Option D
Add water to the mixture and remove the moong dal which will float on top.	Hand pick the moong dal which looks quite different from the rajma seeds.	Use an appropriate sieve and remove the rajma seeds which remain on it.	Shake the mixture-the moong dal will settle at the bottom and rajma seeds on top.

5.	4_23 Science 9050	Physical & Chemical Changes	In the diagram below Circle P represents compounds/mixtures that contain oxygen and are edible and Circle Q represents compounds/mixtures that contain both hydrogen and oxygen. In the region R, the region of intersection of circles P and Q, which of the following can be placed?		B

Answer Options			
Option A	Option B	Option C	Option D
Washing powder	Sugar	Common Salt	Wax

6.	4_23 Science 9057	Physical & Chemical Changes	The figure below shows a diagrammatic representation of molecules of two different gases kept in either side of a tap. The tap is open, which of the following diagrams would represent BEST the diagram after sometime?		D

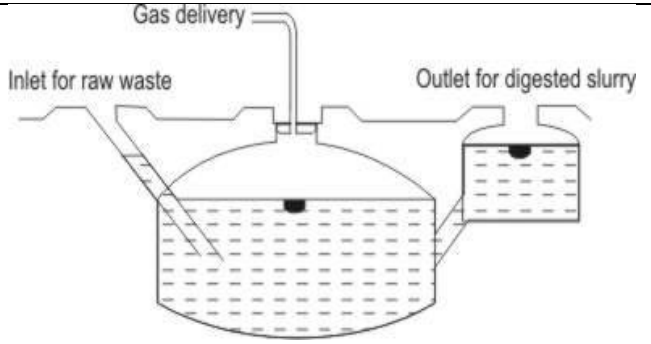
Answer Options			
Option A	Option B	Option C	Option D
			

7.	4_23 Science 9046	**Physical & Chemical Changes**	In which of the following actions is a CHEMICAL reaction produced?		A

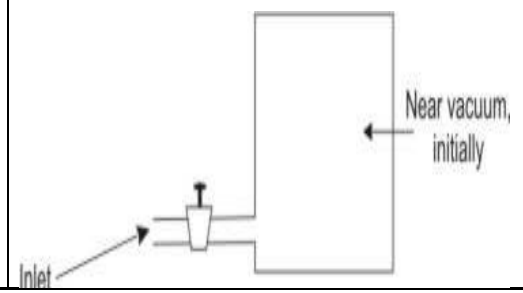
Answer Options			
Option A	Option B	Option C	Option D
Bubbling air through lime water	Bubbling air through water	Adding common salt to water	Adding sugar to coffee powder

8.	4_24 Science 10297	**Physical and Chemical Change**	Rakhi adds 5 tablespoons of sugar to about 1 litre (5 glasses) of water in a vessel and stirs the water till the sugar dissolves. She then starts boiling the water. After every 2 minutes, she takes out 2 spoons of this water and keeps it in different vessels to cool. On tasting the different samples of cooled water, she will find that		B

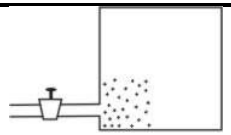
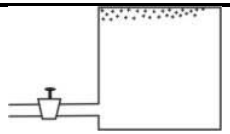
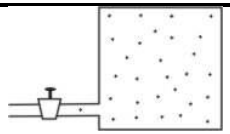
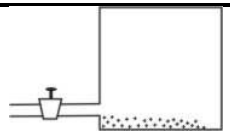
Answer Options			
Option A	Option B	Option C	Option D
all the samples taste like plain water	each sample tastes sweeter than the previous one.	each sample tastes less sweet than the previous one.	all the samples taste sweet like the original solution.

9.	4_24 Science 10295	Physical and Chemical Change	A representation of a biogas plant is shown in the figure. A biogas plant uses micro-organisms to convert domestic and agricultural sewage into methane gas which is used as fuel. Which option below contains materials that can ALL be put into the biogas plant?		D

Answer Options			
Option A	Option B	Option C	Option D
crop residues, plastic and aquatic weeds.	paper, human excreta and leather pieces.	cow dung, glass pieces and sticks.	water hyacinth, poultry wastes and husk.

10.	4_24 Science 10303	Physical and Chemical Changes	The valve in the above figure is initially closed. If it is opened for sometime for the gas to pass in the box and then closed, which of the following will represent the gas molecules in the box? (the dots represent the gas molecules)		C

Answer Options			
Option A	Option B	Option C	Option D

11.	2_10 Science 4153	Weather, Climate and Adaptations of Animals to Climate (Chapter- 7)	Why Sea anemones are called animals even though they do not move from place to place?		**C**

Answer Options			
Option A	**Option B**	**Option C**	**Option D**
They eat other animals.	They breathe.	They do not make their own food.	They reproduce.

12.	3_15 Science 3551	Weather, Climate and Adaptations of Animals to Climate (Chapter- 7)	Some animals have been placed in groups A and B as shown below.What could be the basis for their division into the two groups?	<table><tr><th>Group A</th><th>Group B</th></tr><tr><td>Grasshopper</td><td>Owl</td></tr><tr><td>Deer</td><td>Opossum</td></tr><tr><td>Tiger</td><td>Moth</td></tr><tr><td>Elephant</td><td>Bat</td></tr></table>	A

Answer Options			
Option A	Option B	Option C	Option D
One group is active during the day; the other group is active at night.	One group lives near prairies; the other group lives near forests.	One group benefits people; the other group harms people.	One group eats only plants; the other group eats only meat.

13.	4_23 Science 9037	Weather, Climate & Adaptations (Chapter- 7)	Plants (and animals) adapt themselves to their surroundings in many ways. For example, the trees shown in the picture are about 150 feet tall because they need to reach out to the sunlight. They are not very wide and hence they have developed aerial roots that support the great height. The habitat of the trees is likely to be:		**C**

		Answer Options			
		Option A	Option B	Option C	Option D
		Coastal areas	Deserts	Forests	Mountain slopes

14.	4_23 Science 9055	Weather, Climate & Adaptations	Which would distinguish BIRDS and MAMMALS?	Use the data given in the table below and answer the question.	B

	Fishes	Amphibians	Reptiles	Birds	Mammals
Habitat	Water	Water and land	Land		
Body covering	Wet scales	Naked slimy skin	Hard dry scales	Feathers	Hairs
Breathing system	Gills	Young: Gills; Adults: Lungs	Lungs		
Fertilization	External fertilization		Internal fertilization		
Growth of embryo	Within eggs				In mother's body
Temperature control	Cold blooded			Warm blooded	
Other features	Fins	-	-	Wings, beaks	Mammary glands

Answer Options				
Option A	Option B	Option C	Option D	
Habitat	Body covering	Breathing system	Temperature control	

15.	4_23 Science 9056	Weather, Climate & Adaptations	Which of these would have both these characteristics? 1. skin covered with scales 2. lays eggs in water	Use the data given in the table below and answer the question.	**A**

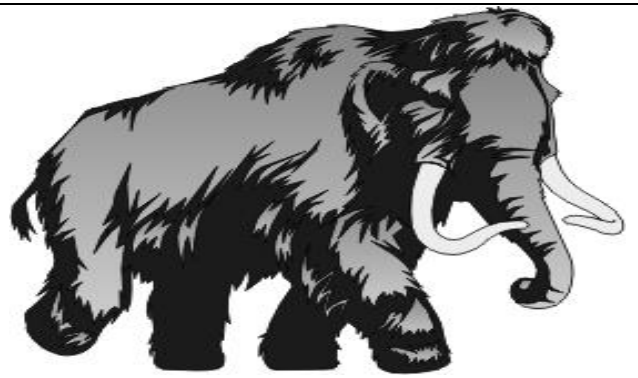
	Fishes	Amphibians	Reptiles	Birds	Mammals
Habitat	Water	Water and land	Land		
Body covering	Wet scales	Naked slimy skin	Hard dry scales	Feathers	Hairs
Breathing system	Gills	Young: Gills; Adults: Lungs	Lungs		
Fertilization	External fertilization		Internal fertilization		
Growth of embryo	Within eggs				In mother's body
Temperature control	Cold blooded			Warm blooded	
Other features	Fins	-	-	Wings, beaks	Mammary glands

Answer Options

Option A	Option B	Option C	Option D
Fish	Amphibian	Reptiles	Birds

SET -9 SUBJECT- SCIENCE CLASS -VII

TOPIC- WEATHER , CLIMATE AND ADAPTATIONS OF ANIMALS TO CLIMATE (CHAPTER NO. -7)

S.N	Folder Number & Question Code	Topic	Question With Answer Options	Image	Correct Answer (Option-A,B,C,D)
1.	1_3 Science 7347	Weather, Climate and Adaptations of Animals to Climate	Here is the picture of an animal called a Giant Mammoth which is now <u>not found anymore</u>. Replace the underlined words by the correct scientific term.		**B**

Answer Options

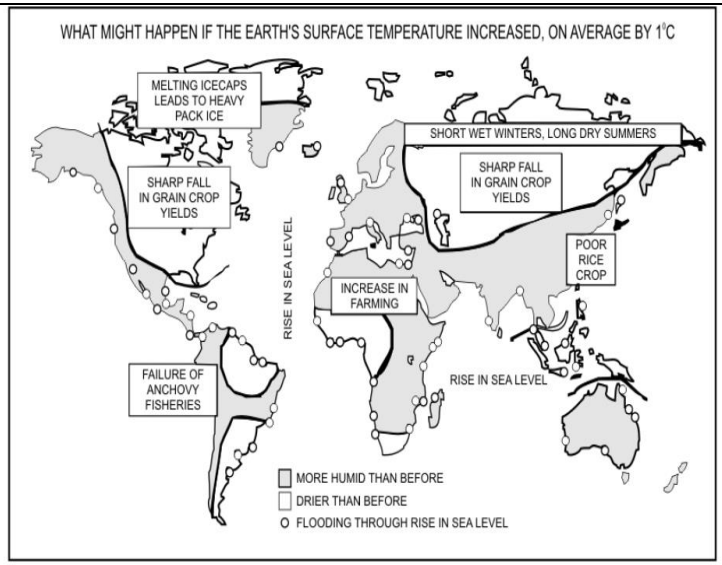
Option A	**Option B**	**Option C**	**Option D**
History	Extinct	Herbivore	Archaeology

2.	1_3 Science 7361	Weather , Climate and Adaptations of Animals to Climate	How are warm-blooded animals different from cold-blooded ones?		**C**

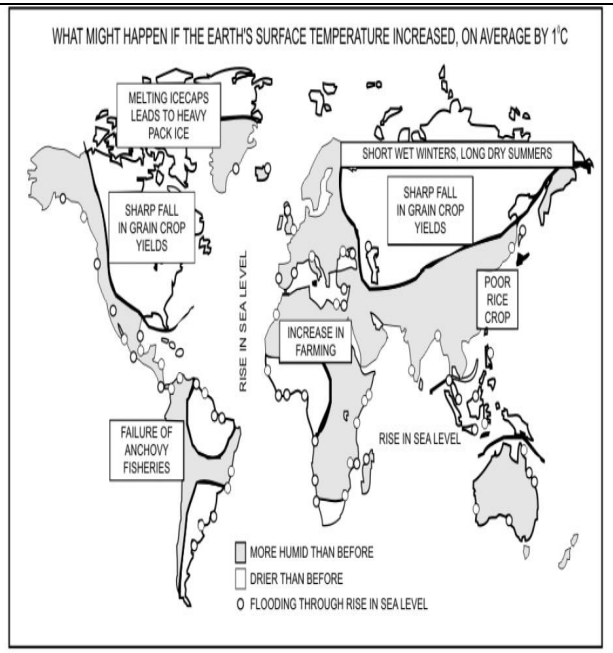
Answer Options			
Option A	Option B	Option C	Option D
They are aggressive in nature.	They are found only in warm climates.	Their internal body temperature is always the same.	Their internal body temperature is always high.

3.	1_3 Science 6658	Weather, Climate and Adaptations of Animals to Climate	The blood temperature of warm-blooded animals -		**C**

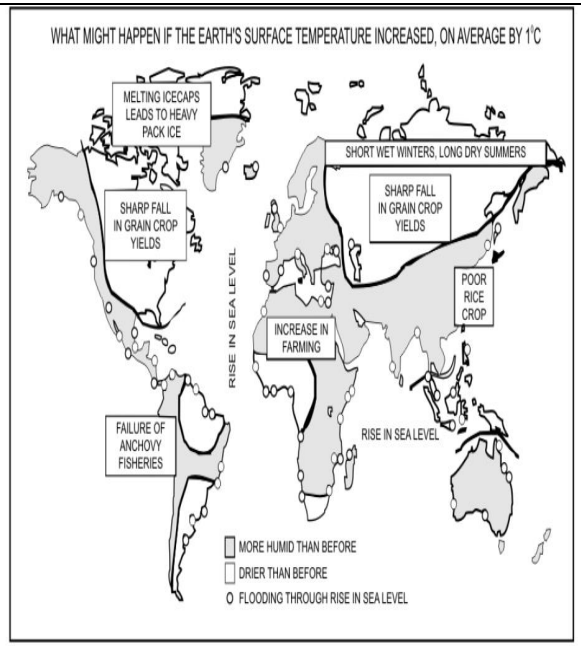
Answer Options			
Option A	Option B	Option C	Option D
Is more than the blood temperature of cold-blooded animals.	Increases in summer and decreases in winter.	Remains the same throughout the year.	Decreases in summer and increases in winter.

4.	2_9 Science 6065	Weather, Climate and Adaptations of Animals to Climate	The question is based on this passage about our environment. The environmental effects shown on the map could occur if :	 The GREENHOUSE EFFECT raises the temperature of the planet. The actual rise is not very much, but the earth's ecosystem is very fragile and small changes can have large effects (map). The Inter-governmental panel on climate has predicted that the world's average temperature will rise by one degree by the year 2025. This could lead to sharp fall in the world's food production, leading to much higher food prices and even less food for the poorest in the world. However it would also mean that some countries which are further north would be able to grow crops they had never been able to before, although there is less land as you move northwards.	**B**

Answer Options			
Option A	Option B	Option C	Option D
There are heavy rains all over the world.	The earth becomes warmer.	The earth becomes cooler.	The earth's population increases very rapidly.

5.	2_9 Science 6066	Weather, Climate and Adaptations of Animals to Climate	The question is based on this passage about our environment. According to the map shown which of these changes is likely in all coastal areas?	 The GREENHOUSE EFFECT raises the temperature of the planet. The actual rise is not very much, but the earth's ecosystem is very fragile and small changes can have large effects (map). The Inter-governmental panel on climate has predicted that the world's average temperature will rise by one degree by the year 2025. This could lead to sharp fall in the world's food production, leading to much higher food prices and even less food for the poorest in the world. However it would also mean that some countries which are further north would be able to grow crops they had never been able to before, although there is less land as you move northwards.	A

Answer Options			
Option A	Option B	Option C	Option D
Submergence of land	Increase in farming	Heavy rainfall	Fall in sea level

6.	2_9 Science 6067	Weather, Climate and Adaptations of Animals to Climate	The question is based on this passage about our environment. According to the passage and map, by 2025, the weather in India is likely to become :	 The GREENHOUSE EFFECT raises the temperature of the planet. The actual rise is not very much, but the earth's ecosystem is very fragile and small changes can have large effects (map). The Inter-governmental panel on climate has predicted that the world's average temperature will rise by one degree by the year 2025. This could lead to sharp fall in the world's food production, leading to much higher food prices and even less food for the poorest in the world. However it would also mean that some countries which are further north would be able to grow crops they had never been able to before, although there is less land as you move northwards.	B

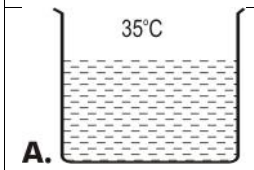
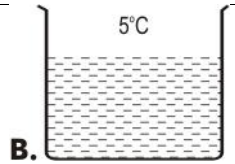
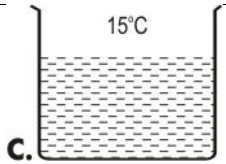
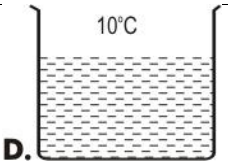
Answer Options

Option A	Option B	Option C	Option D
Colder	More humid	More uniform	More predictable

7.	2_10 Science 4141	Weather, Climate and Adaptations of Animals to Climate	In which region would you be if there was darkness for 24 hours of the day in June?		**B**

Answer Options			
Option A	Option B	Option C	Option D
Near the equator	Near the South pole	Near the tropic of Capricorn	Near the North pole

8.	2_10 Science 4162	Weather, Climate and Adaptations of Animals to Climate	In which of these open buckets containing water would mosquitoes breed fastest?		A

Answer Options			
Option A	Option B	Option C	Option D
			

9.	2_10 Science 4182	Weather, Climate and Adaptations of Animals to Climate	Study this table showing how much animals sleep and answer the question. The animal whose sleep requirement matches that of the adult (not elderly) human being most closely is the:	How much do Animals Sleep?	**B**

Species	Average Total Sleep Time (% of 24 hrs)	Average Total Sleep Time (Hours/day)
Brown Bat	82.9%	19.9 hr
Python	75%	18 hr
Human (infant)	66.7%	16 hr
Squirrel	62%	14.9 hr
Lion	56.3%	13.5 hr
Rat	52.4%	12.6 hr
Dog	44.3%	10.6 hr
Chimpanzee	40.4%	9.7 hr
Human (adult)	33.3%	8 hr
Pig	32.6%	7.8 hr
Human (elderly)	22.9%	5.5 hr
Goat	22.1%	5.3 hr
Cow	16.4%	3.9 hr
Elephant	16.4%	3.9 hr
Horse	12.0%	2.9 hr
Giraffe	7.9%	1.9 hr

Answer Options			
Option A	Option B	Option C	Option D
Chimpanzee	Pig	Goat	Squirrel

10.	2_9 Science 6071	Weather, Climate and Adaptations of Animals to Climate	The earth rotates from WEST to EAST. If it rotated in the opposite direction, that is, from EAST to WEST, which of these changes would result?		**A**

Answer Options			
Option A	Option B	Option C	Option D
The sun would rise in the West and set in the East.	Days would be longer and nights shorter everywhere.	The order of the seasons would be reversed.	There would be no change of any type at all.

11.	2_10 Science 4183	Weather, Climate and Adaptations of Animals to Climate	Study this table showing how much animals sleep and answer the question. According to the table above, the amount of sleep needed by human beings:		**C**

How much do Animals Sleep?

Species	Average Total Sleep Time (% of 24 hrs)	Average Total Sleep Time (Hours/day)
Brown Bat	82.9%	19.9 hr
Python	75%	18 hr
Human (infant)	66.7%	16 hr
Squirrel	62%	14.9 hr
Lion	56.3%	13.5 hr
Rat	52.4%	12.6 hr
Dog	44.3%	10.6 hr
Chimpanzee	40.4%	9.7 hr
Human (adult)	33.3%	8 hr
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Human (elderly)	22.9%	5.5 hr
Goat	22.1%	5.3 hr
Cow	16.4%	3.9 hr
Elephant	16.4%	3.9 hr
Horse	12.0%	2.9 hr
Giraffe	7.9%	1.9 hr

Answer Options

Option A	Option B	Option C	Option D
remains the same with age.	increases from birth, but reduces after adulthood.	reduces from birth till old age.	decreases from birth, but increases after adulthood.

12.	2_10 Science 4184	Weather, Climate and Adaptations of Animals to Climate	Study this table showing how much animals sleep and answer the question. The pattern that emerges between the SIZE of an animal and the amount of sleep it needs is:	How much do Animals Sleep?	**C**

Species	Average Total Sleep Time (% of 24 hrs)	Average Total Sleep Time (Hours/day)
Brown Bat	82.9%	19.9 hr
Python	75%	18 hr
Human (infant)	66.7%	16 hr
Squirrel	62%	14.9 hr
Lion	56.3%	13.5 hr
Rat	52.4%	12.6 hr
Dog	44.3%	10.6 hr
Chimpanzee	40.4%	9.7 hr
Human (adult)	33.3%	8 hr
Pig	32.6%	7.8 hr
Human (elderly)	22.9%	5.5 hr
Goat	22.1%	5.3 hr
Cow	16.4%	3.9 hr
Elephant	16.4%	3.9 hr
Horse	12.0%	2.9 hr
Giraffe	7.9%	1.9 hr

Answer Options			
Option A	Option B	Option C	Option D
the larger the animal, the more hours of sleep it needs.	the smaller the animal, the more hours of sleep it needs.	there is no connection between an animal's size and the number of hours of sleep it needs.	very large and very small animals require more sleep than medium-sized animal.

13.	3_15 Science 3558	Weather, Climate and Adaptations of Animals to Climate	Which of these characteristics is unique of MAMMALS?		C

Answer Options			
Option A	Option B	Option C	Option D
presence of backbones	breathing air into and out from lungs	feeding milk to their young	warm-bloodedness

14.	3_15 Science 3559	Weather, Climate and Adaptations of Animals to Climate	Some scientists believe that global warming may cause coastal areas to get submerged. What could be the main reason why this may happen?		B

Answer Options				
Option A	Option B	Option C	Option D	
The amount of evaporation will increase causing heavy rains.	Ice in the polar regions will melt causing a rise in ocean levels.	Ocean currents will become more active and submerge coasts.	Due to increased heating, the level of the land will fall a bit.	

15.	3_17 Science 1518	Weather, Climate and Adaptations of Animals to Climate	Consider the four cells P, Q, R and S of the table shown below. Into which cell would a polar bear, found in the cold polar regions, fit?	<table><tr><th></th><th>Cold-blooded</th><th>Warm-blooded</th></tr><tr><td>Hibernates due to cold</td><td>P</td><td>Q</td></tr><tr><td>Does not hibernate due to cold</td><td>R</td><td>S</td></tr></table>(all cells may not represent possible combinations)	D

Answer Options			
Option A	Option B	Option C	Option D
P	Q	R	S

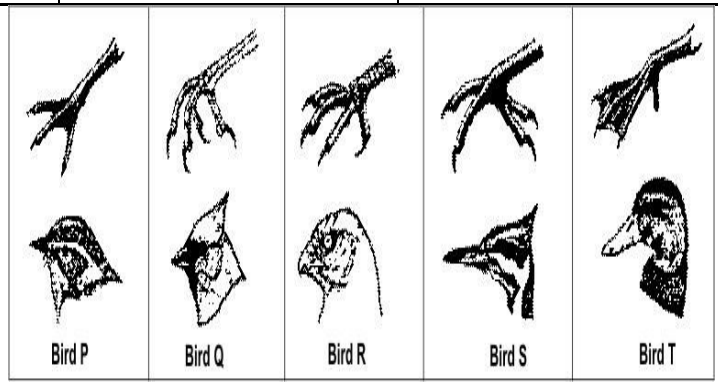
SET -10 SUBJECT- SCIENCE CLASS -VII

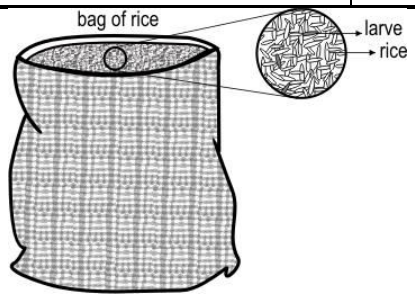
TOPIC- WEATHER , CLIMATE AND ADAPTATIONS OF ANIMALS TO CLIMATE (CHAPTER NO. -7)

WINDS , STORMS AND CYCLONES (CHAPTER NO. -8)

<table>
<tr><td>1.</td><td>4_23
Science

9061</td><td>Weather, Climate and Adaptation Of animals to climate</td><td>Which of these animal adaptations helps the animal protect itself from its predators?</td><td></td><td>D</td></tr>
<tr><td></td><td></td><td colspan="4">Answer Options
<table><tr><td>Option A</td><td>Option B</td><td>Option C</td><td>Option D</td></tr><tr><td>Camels have stored fat in their humps, which they use later</td><td>Walruses shut their nostrils when in a resting state in water</td><td>Snails secrete mucus around their shells when they slide</td><td>Grasshoppers being green blend with their surroundings</td></tr></table></td><td></td></tr>
<tr><td>2.</td><td>4_23
Science

9063</td><td>Weather, Climate and Adaptation Of animals to climate</td><td>Which of these beak-foot combinations is likely to be of a bird that seizes its prey and tears meat?</td><td> 
</td><td>C</td></tr>
<tr><td></td><td></td><td colspan="4">Answer Options</td><td></td></tr>
</table>

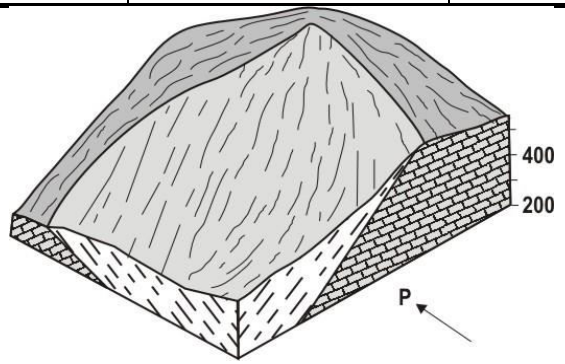
		Option A	Option B	Option C	Option D	
		Bird P	Bird Q	Bird R	Bird S	
3.	4_23 Science 9066	Weather, Climate and Adaptation Of animals to climate	Larvae (newly hatched insects) were found in a bag of rice. What best explains how the larvae got there?			**D**

Answer Options			
Option A	Option B	Option C	Option D
They came from the water in the bag.	They came from the air in the bag.	They came from the rice itself	They came from the eggs laid by insects

4.	4_23 Science 9071	Weather, Climate and Adaptation Of animals to climate	Bangalore's cooler climate can be because of which of these?	The cities Bangalore and Chennai are almost at the same latitude. Study the table given below and answer the question. **City** / **Bangalore** / **Chennai** Latitude / 13.0°N / 13.0°N Longitude / 77.6°E / 80.3°E Height above sea level / 920 metres / 15 metres Distance from sea / 330 km / 0 km Average temperature / 23°C / 28°C Average annual rainfall / 90 cm / 126 cm Days in year with temperature over 35°C / 9 / 95 Days in year with temperature below 18°C / 91 / 2	A

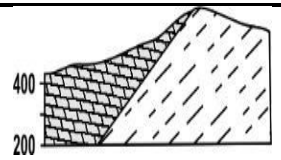
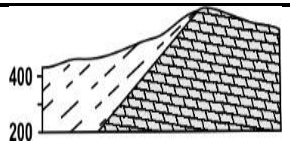
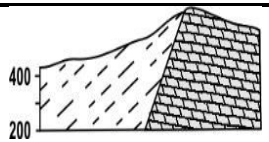
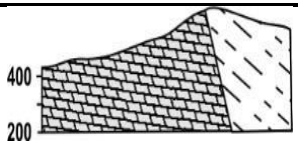
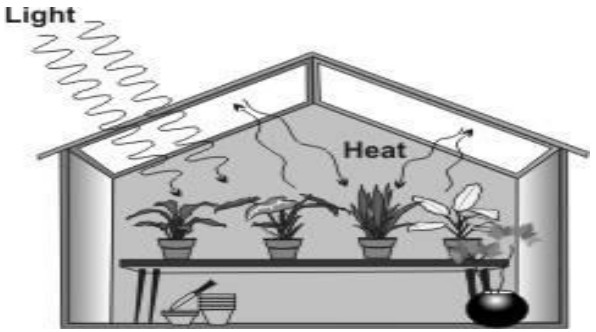
Answer Options

Option A	Option B	Option C	Option D
Its greater height above sea level	Its greater distance from the sea.	Its different longitude	Its lesser average annual rainfall.

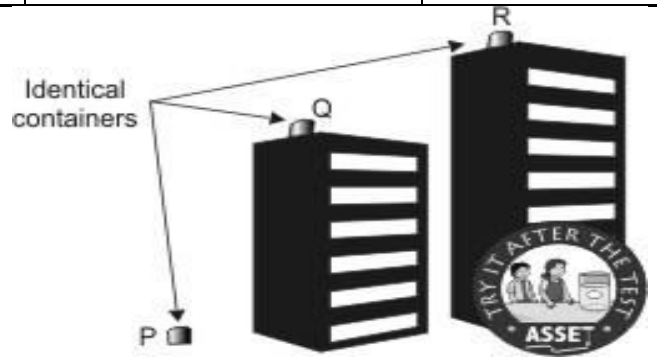
5.	4_23 Science 9077	Weather, Climate and Adaptation Of animals to climate	The above figure shows the levels of elevation of a place. Which of the following figures BEST represents the view of the figure from side P?		B

Answer Options

Option A	Option B	Option C	Option D

					
6.	4_25 Science 11903	Weather, Climate and Adaptation Of animals to climate	The structure shown here is called a greenhouse. Greenhouses have glass panels that let in light but keep heat from escaping. In which regions would greenhouses of this type be used to grow plants?		A

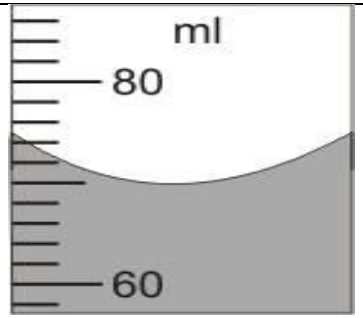
Answer Options			
Option A	Option B	Option C	Option D
regions that are very cold	regions that are very hot	regions that are very humid	regions that are very dry

7.	4_25 Science 11918	Weather, Climate and Adaptation of Animals to climate	Three identical containers P, Q and R are taken, and kept - one on the terrace of a tall building; another on the terrace of a shorter building; and the third in an open space. After a rain, which one will have the highest level of water, assuming no overflow and no obstructions near the containers?		**D**

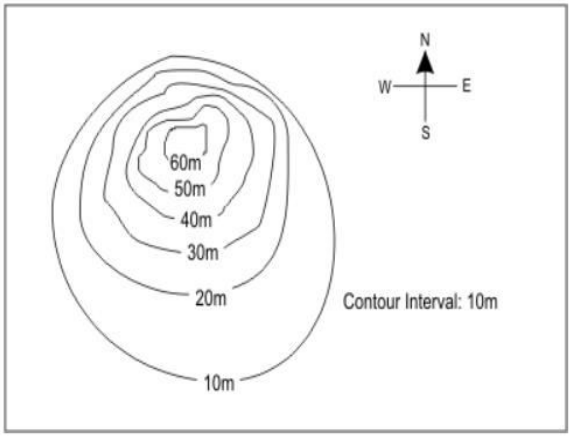
		Answer Options			
		Option A	Option B	Option C	Option D
		P	Q	R	All Three

8.	3_16 Science 2406	Weather, Climate and Adaptations of animal to climate	In a rain gauge the amount of rainfall is measured in _____.		A

Answer Options			
Option A	Option B	Option C	Option D
centimetres (cm)	square centimetres	litres (l)	cubic metres

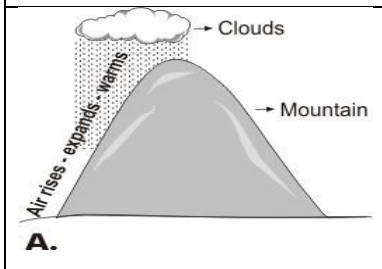
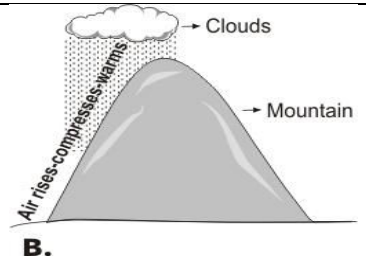
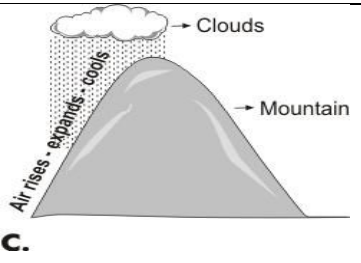
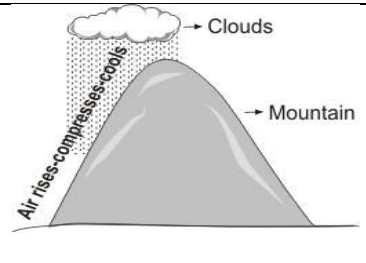
9.	3_16 Science 2434	Weather, Climate and Adaptations of animal to climate	What is the volume of water in the measuring cylinder?		A

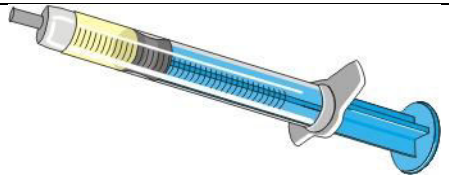
			Answer Options			
			Option A	Option B	Option C	Option D
			70 ml	75 ml	74 ml	72.5 ml

10.	1_3 Science 6656	WIND, STORMS AND CYCLONES (Chapter-8)	Contour lines join points of equal height in a map. Given below is the contour of a hill. The height along each line is also shown. The height of the hill is about:		**A**

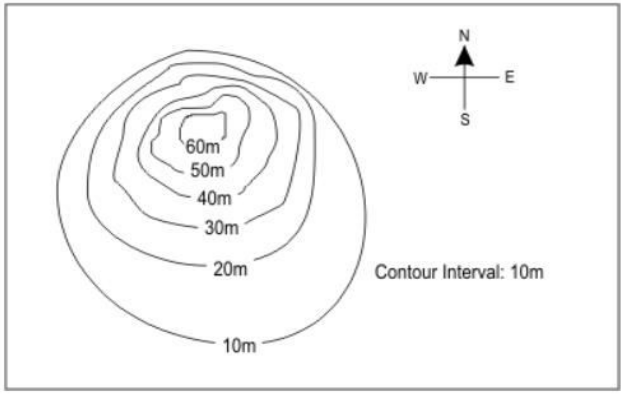
Answer Options			
Option A	Option B	Option C	Option D
60m	50m	40m	30m

11.	3_15 Science 3554	WIND, STORMS AND CYCLONES (Chapter-8)	Which diagram best illustrates how air rising over a mountain produces rainfall?		C

		Answer Options				
		Option A	Option B	Option C	Option D	
						

12.	3_15 Science 3567	WIND, STORMS AND CYCLONES (Chapter-8)	Shyam is playing with a syringe. He places his finger on the outlet and tries to press the plunger down. He will be able to push the plunger _____		C

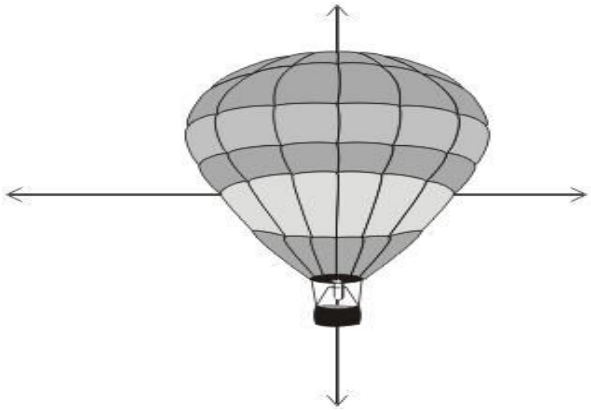
Answer Options			
Option A	Option B	Option C	Option D
all the way down	not at all	very little	none of these - the syringe will break)

13.	1_3 Science 6657	WIND , STORMS AND CYCLONES (Chapter-8)	Contour lines join points of equal height in a map. Given below is the contour of a hill. The height along each line is also shown. A steep slope is one in which the change in height is quite sudden. Which slope of this hill is the steepest?		**A**

Answer Options			
Option A	Option B	Option C	Option D
Northern	Southern	Eastern	Western

14.	2_9 Science 6052	WIND, STORMS AND CYCLONES (Chapter-8)	Which of these latitudes passes through India?		**B**

Option A	Option B	Option C	Option D
Equator	Tropic of Cancer	Tropic of Capricorn	Pygmalion Point

15.	2_10 Science 4172	WIND, STORMS AND CYCLONES (Chapter-8)	The lengths of the arrows show the size(magnitude) and direction of the forces acting on a hot air balloon in the diagram below. Which of the following will the balloon be doing?		**C**

Answer Options			
Option A	Option B	Option C	Option D
Moving right and rising	Moving vertically upwards	Moving left and dropping	Moving left and rising

SET -11 SUBJECT- SCIENCE CLASS -VII

TOPIC- WIND ,STORM AND CYCLONES (CHAPTER NO. -8)

SOIL (CHAPTER NO. -9), RESPIRATION IN ORGANISMS (CHAPTER NO. -10)

S.N	Folder Number & Question Code	Topic	Question With Answer Options	Image	Correct Answer (Option-A,B,C,D)
1.	2_9 Science 6053	WIND,STORMS AND CYCLONES	The term 'monsoon' refers to:		**D**

Answer Options

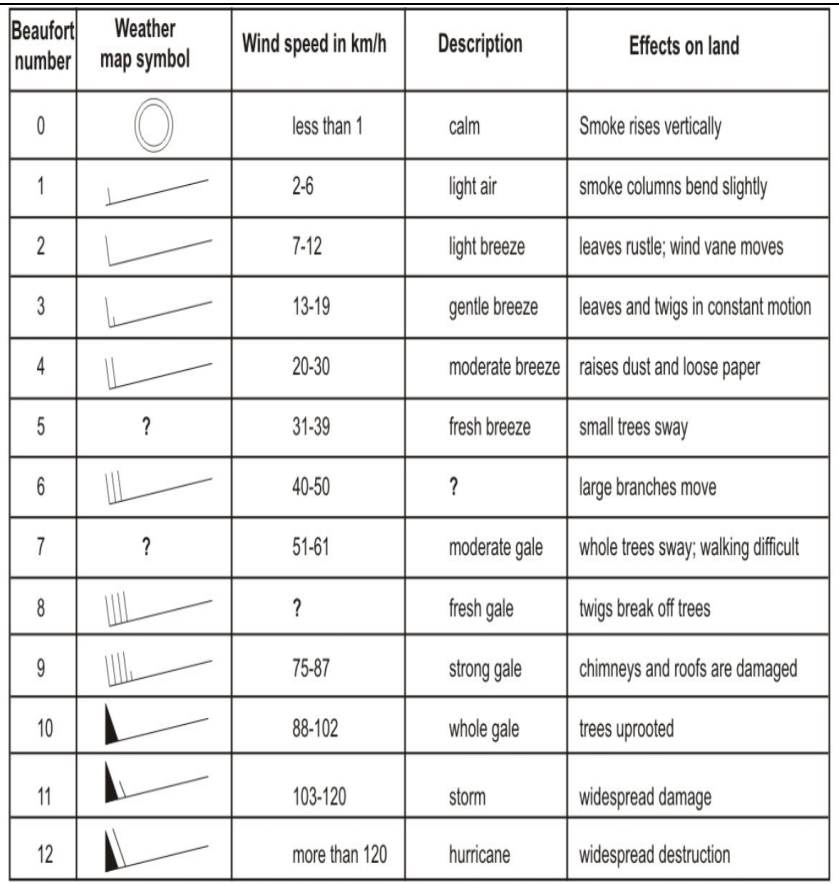
Option A	Option B	Option C	Option D
Rains, anytime, anywhere in the world.	Post-summer rains anywhere in the world.	Rains, anytime, in and near India.	Post-summer rains in and near India.

2.	2_10 Science 4175	WIND, STORMS AND CYCLONES	Parts of the Beaufort Wind Scale, which is a numerical scale for wind speed, are given. Answer the question using this information. Where would you put the following symbol? 		**B**

Beaufort number	Weather map symbol	Wind speed in km/h	Description	Effects on land
0		less than 1	calm	Smoke rises vertically
1		2-6	light air	smoke columns bend slightly
2		7-12	light breeze	leaves rustle; wind vane moves
3		13-19	gentle breeze	leaves and twigs in constant motion
4		20-30	moderate breeze	raises dust and loose paper
5	?	31-39	fresh breeze	small trees sway
6		40-50	?	large branches move
7	?	51-61	moderate gale	whole trees sway; walking difficult
8		?	fresh gale	twigs break off trees
9		75-87	strong gale	chimneys and roofs are damaged
10		88-102	whole gale	trees uprooted
11		103-120	storm	widespread damage
12		more than 120	hurricane	widespread destruction

Answer Options

Option A	Option B	Option C	Option D
Wind speed 13-19 km/h	Wind speed 31-39 km/h	Wind speed 51-61 km/h	Wind speed 75-87 km/h

3.	2_10 Science 4176	WIND, STORMS AND CYCLONES	Parts of the Beaufort Wind Scale, which is a numerical scale for wind speed, are given. Answer the question using this information. The effect on land: "**large branches move**" is likely to match the description- ----------		**C**

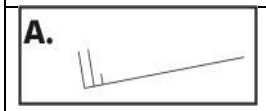
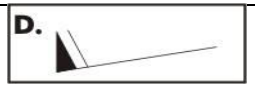
Beaufort number	Weather map symbol	Wind speed in km/h	Description	Effects on land
0		less than 1	calm	Smoke rises vertically
1		2-6	light air	smoke columns bend slightly
2		7-12	light breeze	leaves rustle; wind vane moves
3		13-19	gentle breeze	leaves and twigs in constant motion
4		20-30	moderate breeze	raises dust and loose paper
5	?	31-39	fresh breeze	small trees sway
6		40-50	?	large branches move
7	?	51-61	moderate gale	whole trees sway; walking difficult
8		?	fresh gale	twigs break off trees
9		75-87	strong gale	chimneys and roofs are damaged
10		88-102	whole gale	trees uprooted
11		103-120	storm	widespread damage
12		more than 120	hurricane	widespread destruction

Answer Options			
Option A	Option B	Option C	Option D
Light air	Gentle breeze	Strong breeze	Strong gale

4.	2_10 Science 4177	WIND,STORMS AND CYCLONES	Parts of the Beaufort Wind Scale, which is a numerical scale for wind speed, are given. Answer the question using this information. Heavy rains and strong winds lashed the coast of Tamil Nadu yesterday causing widespread damage in their wake. Winds reaching a speed of up to 100 kmph were reported. Trees were uprooted at a number of places inhibiting traffic movement."Which weather map symbol corresponds to the above description?"		**C**

Beaufort number	Weather map symbol	Wind speed in km/h	Description	Effects on land
0		less than 1	calm	Smoke rises vertically
1		2-6	light air	smoke columns bend slightly
2		7-12	light breeze	leaves rustle; wind vane moves
3		13-19	gentle breeze	leaves and twigs in constant motion
4		20-30	moderate breeze	raises dust and loose paper
5	?	31-39	fresh breeze	small trees sway
6		40-50	?	large branches move
7	?	51-61	moderate gale	whole trees sway; walking difficult
8		?	fresh gale	twigs break off trees
9		75-87	strong gale	chimneys and roofs are damaged
10		88-102	whole gale	trees uprooted
11		103-120	storm	widespread damage
12		more than 120	hurricane	widespread destruction

Answer Options

Option A	Option B	Option C	Option D
A. 	B. 	C. 	D. 

5.	2_9 Science 6050	WIND , STORMS AND CYCLONES	You must have played with gas balloons that keep rising higher and higher in the air. Why do these gas balloons rise?		**B**

Answer Options			
Option A	Option B	Option C	Option D
The balloon is made of a special material whose density is less than air's.	The balloon is filled with a gas less dense than air.	The balloon is filled with a gas colder than air.	The thread of the balloon is made of a special material.

6.	3_16 Science 2441	WIND , STORMS AND CYCLONES	Renu has to fill a number of small bottles with juice quickly and with no spillage. Which of these arrangements should she use?		A

Answer Options			
Option A	Option B	Option C	Option D
 A.	 B.	 C.	All will be same. D.

7.	4_24	WIND , STORMS	Tinu had two identical balloons. In one of them		B

	Science 10292	AND CYCLONES	he filled helium gas and in the other he filled air. He found that when he let the balloons free, the balloon filled with helium gas flew away in the air, while the balloon filled with air fell to the ground. On the basis of this, Tinu suggested the following explanations. Which of them is MOST likely to be true?		

Answer Options			
Option A	Option B	Option C	Option D
Gas from the helium-filled balloon was leaking.	Helium gas is lighter than air.	Earth repels the helium-filled balloon.	The amount of helium filled was less than the air.

8.	3_16 Science 2427	Winds, Storms and Cyclones	Paddy is grown in the Kharif season (July-October) in India. It is sown with the onset of the south-west monsoon in India which coincides with the months of June and July, and is harvested in October. From this, we can conclude that Paddy is a/an_____.		A

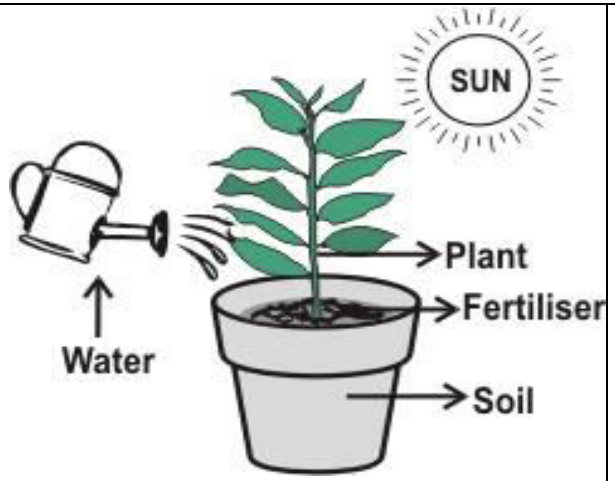
Answer Options			
Option A	Option B	Option C	Option D
annual crop	biennial crop	perennial crop	(the information is insufficient)

9.	3_16 Science 2408	**Soil** (CHAPTER NO.9)	Typically, how are sedimentary rocks formed?		D

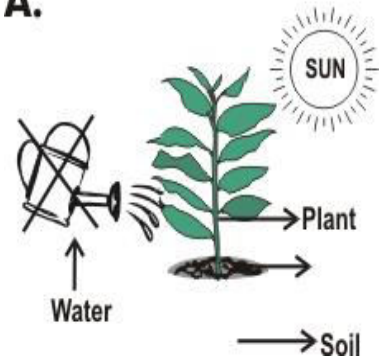
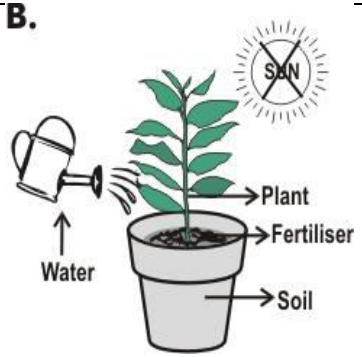
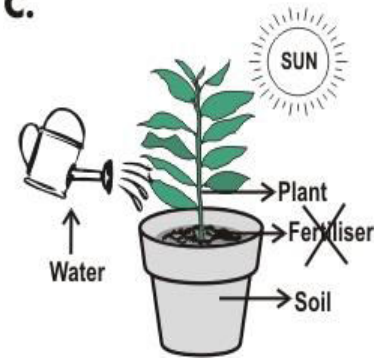
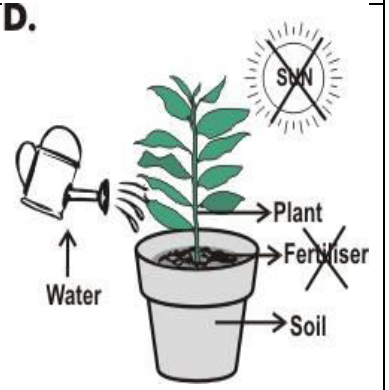
Answer Options			
Option A	Option B	Option C	Option D
due to the eruption of volcanoes	under great pressure and high temperatures	below the earth's surface as the magma cools	from materials that settle over centuries

10.	4_23 Science 9049	Soil (CHAPTER NO.9)	India possesses one-fortieth of the world's land area, but has 197 million cattle which is more than in any other nation. This has led to serious problems of overgrazing as animals have encroached into forest lands and even agricultural lands. Which of these would be a likely consequence of this overgrazing?		B

Answer Options			
Option A	Option B	Option C	Option D
Acid rain	Soil erosion	Air pollution	Global warming

11.	2_10 Science 4167	SOIL (CHAPTER NO.9)	Ram had read that plants needed fertilizers from the soil for healthy growth. He placed a plant in the Sun, as shown in the figure. In order to check whether what he had heard was correct, Ram needed another plant. Which of the following should he use?		**C**

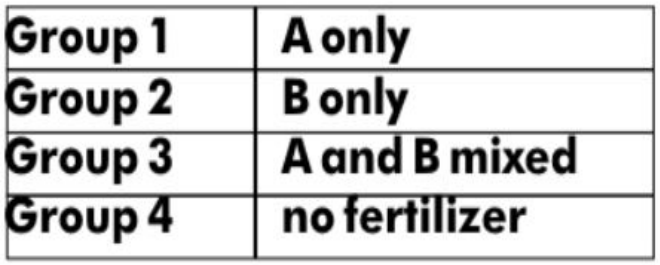
Answer Options

Option A	Option B	Option C	Option D
A. 	**B.** 	**C.** 	**D.** 

12.	2_9 Science 4982	SOIL (CHAPTER NO.9)	The question is about a fertilizer company that has made a new fertilizer A. It says that if this new fertilizer is mixed with another fertilizer B, plants will grow better than when B alone is used. Kamesh, who normally uses fertilizer B, wants to verify if this is true. Kamesh divides his tomato plants into 4 groups and grows them using different fertilizers. Which group(s) are not actually relevant to verify what Kamesh wanted to?		**A**

Answer Options

Option A	Option B	Option C	Option D
Groups 1 and 4	Groups 2 and 4	Groups 1 and 3	Group 4 only

13.	2_9 Science 4983	SOIL (CHAPTER NO.9)	The question is about a fertilizer company that has made a new fertilizer A. It says that if this new fertilizer is mixed with another fertilizer B, plants will grow better than when B alone is used. Kamesh, who normally uses fertilizer B, wants to verify if this is true. Kamesh divides his tomato plants into 4 groups and grows them using different fertilizers. If what the company says about fertilizer B is true, what will be order FROM BEST		**B**

			TO WORST of the growth of the plants in groups 2 to 4?		

Answer Options			
Option A	**Option B**	**Option C**	**Option D**
Group 4, group 3, group 2	Group 3, group 2, group 4	Group 3, group 4, group 2	Group 2, group 3, group 4

14.	4_25 Science 12176	Soil (CHAPTER NO.9)	Ahmed's grandfather plants trees all along the edge of their farm in the hills, along the boundary fence. What is MOST likely to be the reason for this?		C

Answer Options			
Option A	Option B	Option C	Option D
to reduce the rainfall	to keep away goats	To conserve soil	to demarcate the boundary

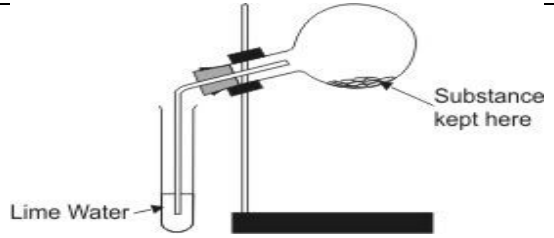
15.	3_16 Science 2420	Respiration in Organisms (Ch.10)	Raghu's swimming instructor asked him to hold his breath while pushing his face underwater. What will happen to the level of oxygen concentration in Raghu's blood while holding his breath?		A

		Answer Options			
		Option A	Option B	Option C	Option D
		The oxygen concentration will decrease.	The oxygen concentration will increase.	The oxygen concentration will remain the same.	The oxygen concentration will become zero.

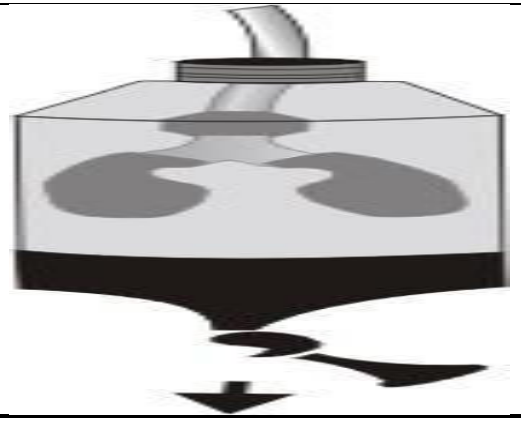
SET -12 SUBJECT- SCIENCE CLASS -VII

TOPIC- RESPIRATION IN ORGANISMS (CHAPTER NO. -10)

TRANSPORTATION IN ORGANISMS (CHAPTER NO. -11)

S.N	Folder Number & Question Code	Topic	Question With Answer Options	Image	Correct Answer (Option-A,B,C,D)
1.	4_25 Science 11966	Respiration in organisms (Ch.10)	In the arrangement shown, which of the following substances will make lime water turn milky when kept in the round-bottomed flask for a few days?		A

Answer Options			
Option A	Option B	Option C	Option D
damp boiled rice	dry wood pieces	roasted peanuts	charcoal

2.	3_15 Science 3582	Respiration in Organisms (Ch.10)	Study the model shown here. It is made from a cut plastic bottle, 2 balloons, a tube, a stopper and a cut balloon. This model corresponds to the human lung model as shown. What will happen when the stretched band is pulled downwards?		A

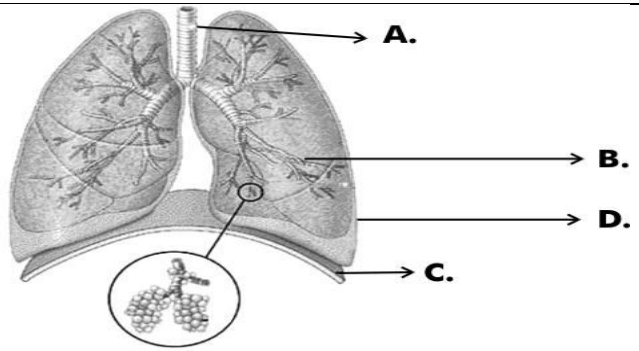
Answer Options			
Option A	Option B	Option C	Option D
the balloons will expand	the balloons will contract	the balloons will be unchanged	the bottle will contract

3.	1_3 Science 6641	RESPIRATION IN ORGANISM (Ch.10)	Which among the following is not an organ system in the human body?		**C**

Answer Options			
Option A	**Option B**	**Option C**	**Option D**
Digestive system	Respiratory system	Brain system	Circulatory system

4.	2_9 Science 6042	RESPIRATION IN ORGANISM (Ch.10)	The organ shown here is a part of which of these organ systems?		**B**

Answer Options			
Option A	**Option B**	**Option C**	**Option D**
Nervous System	Respiratory System	Digestive System	None of these

5.	4_23 Science 9144	Respiration in organisms (Ch.10)	In the figure given of the human lungs, which arrow points to the bronchioles?		B

		Answer Options			
		Option A	Option B	Option C	Option D
		A	B	C	D

6.	2_9 Science 6057	RESPIRATION IN ORGANISM (Ch.10)	Presence of carbon dioxide turns limewater milky. Applying this fact and observing the following chart, identify the correct statement below.		**D**

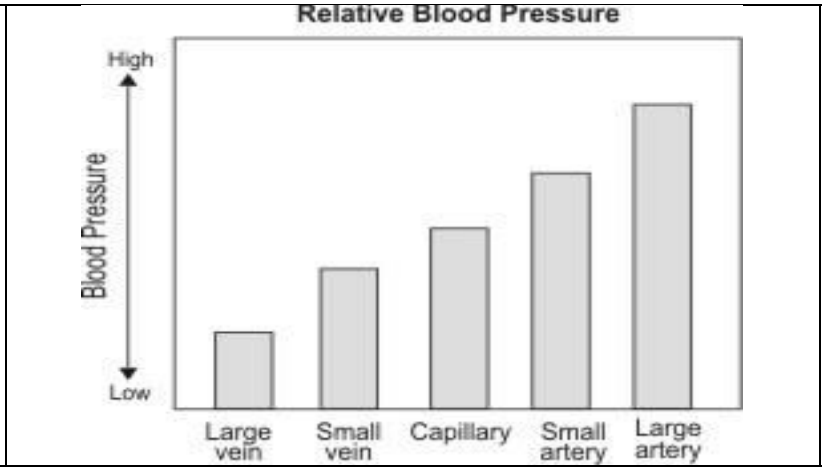
Sample No.	Original Colour	Colour after adding lime water
Sample 1	Clear	Milky white
Sample 2	Clear	Clear
Sample 3	Clear	Pale white
Sample 4	Yellow	Yellow

Answer Options			
Option A	Option B	Option C	Option D
Sample 2 contains more carbon dioxide than sample 3.	Sample 3 contains more carbon dioxide than sample 1.	Sample 1 and 2 both contain carbon dioxide.	Sample 4 does not contain carbon dioxide.

7.	4_24	Respiration	Blood glucose levels are expressed in terms of mass per unit volume.		D

	Science 10274	in Animals (Ch.10)	Which of the following would be the MOST appropriate unit to measure blood glucose level?		

Answer Options			
Option A	Option B	Option C	Option D
gram/decimetre	micron/degrees C	litre/gram	milligram/decilitre

8.	4_25 Science 11807	TRANSPORTATION IN ANIMALS AND PLANTS (Ch.11)	The blood pressure in various arteries and veins in the body is not the same. The pressure is higher in arteries closer to the heart and lower in veins which are far away from the heart. This is shown in the graph here. Which of these statements is likely to be correct about these types of blood vessels?		B

Answer Options			
Option A	Option B	Option C	Option D
Blood will flow out fastest if a LARGE VEIN is accidentally cut.	LARGE ARTERIES will have the thickest and most muscular walls.	When the blood leaves the heart, it first enters CAPILLARIES.	A SMALL ARTERY is likely to get divided into many LARGE ARTERIES.

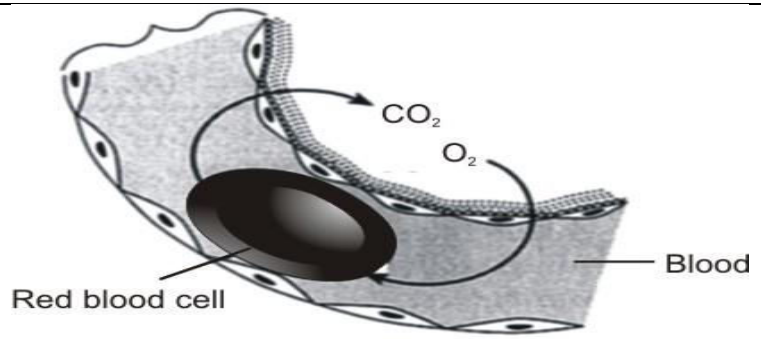
9.	2_9 Science 6051	TRANSPORTATION IN ANIMALS AND PLANTS	Which of these does NOT affect the amount we sweat?		**D**

Answer Options

Option A	**Option B**	**Option C**	**Option D**
Surrounding temperature	Surrounding humidity	Individual characteristics	Amount of water we drink

10.	3_17 Science 1841	TRANSPORTATION IN ANIMALS AND PLANTS (Ch.11)	The chamber of the heart that has the thickest muscles is one that_____.		A

		Answer Options			
		Option A	Option B	Option C	Option D
		pumps oxygenated blood to all parts of the body..	pumps deoxygenated blood to the lungs	receives oxygenated blood from the lungs.	receives deoxygenated blood from all parts of the body

11.	3_17 Science 1845	TRANSPORTATION IN ANIMALS AND PLANTS (Ch.11)	Given below is a diagrammatic representation of a process taking place in a specific region of the human body. Which region/organ is this?		B
		Answer Options			
		Option A	Option B	Option C	Option D
		The heart	The lungs	The liver	Bones

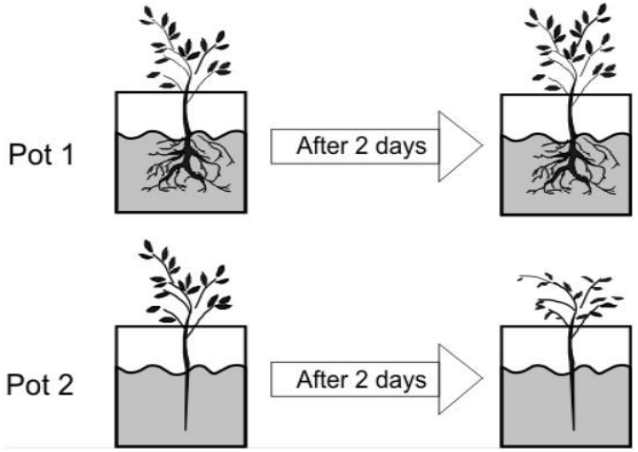
12.	4_25 Science	Transportation in animals and plants	Which of these units could blood flow be expressed in?	The question is related to this table showing the amount of blood flowing through the various organs at different times in the human body (in appropriate units.)	B

	11957			<table><tr><th></th><th>Blood Flow at rest</th><th>During Strenuous Exercise</th></tr><tr><td>Heart</td><td>250</td><td>750</td></tr><tr><td>Kidneys</td><td>1,200</td><td>600</td></tr><tr><td>Skeletal Muscles</td><td>1,000</td><td>12,500</td></tr><tr><td>Skin</td><td>400</td><td>1,900</td></tr><tr><td>Viscera</td><td>1,400</td><td>600</td></tr><tr><td>Brain</td><td>750</td><td>750</td></tr><tr><td>Other</td><td>600</td><td>400</td></tr><tr><td>Total</td><td>5,600</td><td>17,500</td></tr></table>	

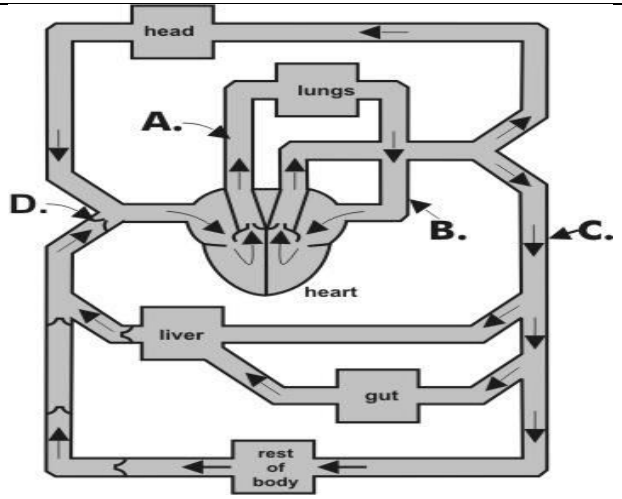
Answer Options			
Option A	Option B	Option C	Option D
litres per kilogram	millilitres per minute	metres per second	seconds per cubic centimetre

13.	4_25 science 11956	Transportation in animals and plants	What can be concluded from the given data?	The question is related to this table showing the amount of blood flowing through the various organs at different times in the human body (in appropriate units.) <table><tr><th></th><th>Blood Flow at rest</th><th>During Strenuous Exercise</th></tr><tr><td>Heart</td><td>250</td><td>750</td></tr><tr><td>Kidneys</td><td>1,200</td><td>600</td></tr><tr><td>Skeletal Muscles</td><td>1,000</td><td>12,500</td></tr><tr><td>Skin</td><td>400</td><td>1,900</td></tr><tr><td>Viscera</td><td>1,400</td><td>600</td></tr><tr><td>Brain</td><td>750</td><td>750</td></tr><tr><td>Other</td><td>600</td><td>400</td></tr><tr><td>Total</td><td>5,600</td><td>17,500</td></tr></table>	B

		Answer Options				
		Option A	Option B	Option C	Option D	
		The total volume of blood in the human body increases during strenuous exercise.	The blood flow in different organs changes in response to the changing needs of the body.	The kidneys and some other organs stop functioning during strenuous exercise.	Anything which increases blood flow to various parts of the body is harmful.	

14.	1_3 Science 7348	TRANSPORTATION IN ANIMALS AND PLANTS	Shown here is the set up for an experiment in which plants were planted in 2 pots, watered regularly and observed after 2 days. What can you answer from the above experimental results?		**D**

Answer Options			
Option A	Option B	Option C	Option D
Can plants grow in bottles?	Can we grow plants in water alone?	What is the function of the roots of a plant?	Can we grow a plant without roots?

15.	3_16 Science 2449	Transportation in Animals and Plants	In the representation of the circulatory system below, identify the artery that carries deoxygenated blood.		A

Answer Options

Option A	Option B	Option C	Option D
A	B	C	D

SET -13 CLASS -VII SUBJECT – SCIENCE

TOPIC- TRANSPORTATION IN ANIMALS AND PLANTS (CHAPTER -11)

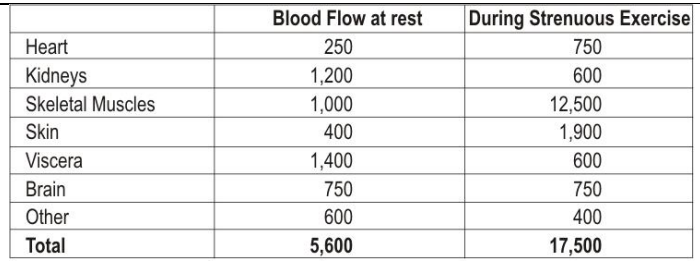
REPRODUCTION IN PLANTS (CHAPTER -12)

S.N	Folder Number & Question Code	Topic	Question With Answer Options	Image	Correct Answer (Option-A,B,C,D)
1.	1_3 Science 6648	TRANSPORTATION IN ANIMALS AND PLANTS **(CHAPTER -11)**	Manu wanted to find out if his heartbeat rate changed after he ran. These are the things he recorded. Which of them is NOT required for him to find the answer?		**C**

Answer Options			
Option A	Option B	Option C	Option D
The number of heart beats per minute before running	The number of heart beats per minute immediately after running	His body temperature after running	All the above three are required.

<table>
<tr><td>2.</td><td>1_3
Science
7365</td><td>TRANSPORTATION IN ANIMALS AND PLANTS
(CHAPTER -11)</td><td>What happens in an athlete's body, 20 seconds after he starts running a race?</td><td></td><td>A</td></tr>
<tr><td colspan="6">
<table>
<tr><td colspan="4">Answer Options</td></tr>
<tr><td>Option A</td><td>Option B</td><td>Option C</td><td>Option D</td></tr>
<tr><td>The heart pumps more blood to the legs.</td><td>The muscles begin to tighten.</td><td>Fluids pour into the stomach.</td><td>The lungs need more air.</td></tr>
</table>
</td></tr>
<tr><td>3.</td><td>3_17
Science
1533</td><td>TRANSPORTATION IN ANIMALS AND PLANTS
(CHAPTER -11)</td><td>What can be concluded from the given data?</td><td>
<table>
<tr><th></th><th>Blood Flow at rest</th><th>During Strenuous Exercise</th></tr>
<tr><td>Heart</td><td>250</td><td>750</td></tr>
<tr><td>Kidneys</td><td>1,200</td><td>600</td></tr>
<tr><td>Skeletal Muscles</td><td>1,000</td><td>12,500</td></tr>
<tr><td>Skin</td><td>400</td><td>1,900</td></tr>
<tr><td>Viscera</td><td>1,400</td><td>600</td></tr>
<tr><td>Brain</td><td>750</td><td>750</td></tr>
<tr><td>Other</td><td>600</td><td>400</td></tr>
<tr><td>Total</td><td>5,600</td><td>17,500</td></tr>
</table>
The question is related to this table showing the amount of blood flowing through the various organs at different times in the human body (in appropriate units.)
</td><td>B</td></tr>
</table>

		Answer Options				
		Option A	Option B	Option C	Option D	
		The total blood volume of the human body increases during strenuous exercise.	The blood flow in different organs changes in response to the changing needs of the body.	The kidneys and some other organs stop functioning during strenuous exercise.	(The data is incorrect since the blood flow cannot be different in different parts of the body)	

4.	3_17 Science 1534	TRANSPORTATION IN ANIMALS AND PLANTS **(CHAPTER -11)**	Which of these units could blood flow be expressed in?	 The question is related to this table showing the amount of blood flowing through the various organs at different times in the human body (in appropriate units.)	B

Blood Flow at rest	During Strenuous Exercise
Heart	250	750
Kidneys	1,200	600
Skeletal Muscles	1,000	12,500
Skin	400	1,900
Viscera	1,400	600
Brain	750	750
Other	600	400
Total	**5,600**	**17,500**

Answer Options			
Option A	Option B	Option C	Option D
liters per kilogram	milliliters per minute	meters per second	seconds per centimeter cubed

5.	3_16 Science 2446	TRANSPORTATION IN ANIMALS AND PLANTS **(CHAPTER -11)**	Which of the following is responsible for blotting paper absorbing ink or water?		A

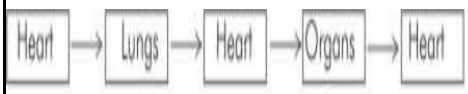
Answer Options			
Option A	Option B	Option C	Option D
Capillary action.	Surface tension.	Reverse osmosis.	Diffusion

6.	4_24 Science 10270	TRANSPORTATION IN ANIMALS AND PLANTS **(CHAPTER -11)**	Blood circulating in our body follows a particular sequence. Which of the following is the correct sequence of blood flow?		B

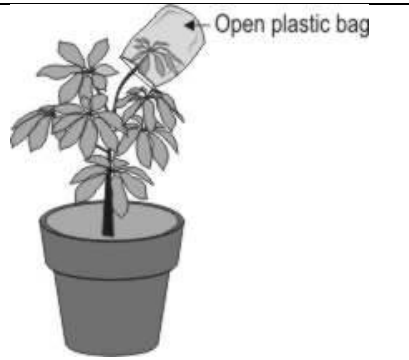
Answer Options			
Option A	Option B	Option C	Option D


Heart
Lungs
Organs
Lungs
Heart

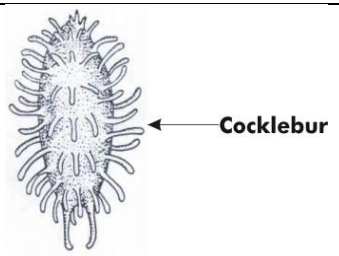

Heart
Organs
Heart


Heart
Lungs
Heart
Organs
Heart


Heart
Lungs
Organs
Heart

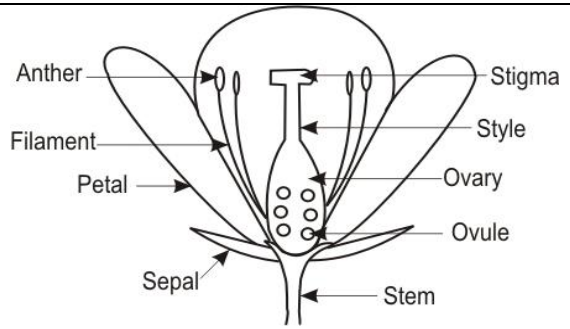
7	4_24 Science 10285	TRANSPORTATION IN ANIMALS AND PLANTS **(CHAPTER -11)**	Aalapi was taught in her school that transpiration is a process by which plants lose water in the form of vapour through their leaves. To check this, she took a plant and placed an open plastic bag over some of the leaves (as shown in the figure) and left it for a day. Will she be able to check if transpiration occurred?		C

Answer Options			
Option A	Option B	Option C	Option D
Yes. The water vapour will condense and form droplets inside the plastic bag.	Yes. The water vapour will condense and form droplets outside the bag.	No. The water vapour will escape from the open plastic bag.	No. The water given out will be absorbed back by the leaves.

8.	3_16 Science 2412	Reproduction in plants **(CHAPTER -12)**	The given picture shows the seed of a plant called cocklebur. Choose the correct method by which this seed is dispersed.		C

Answer Options

		Option A	Option B	Option C	Option D	
		carried by water	carried by wind	carried on an animal's fur	eaten by an animal	

9.	3_16 Science 2431	Reproduction in plants **(CHAPTER -12)**	Which is the part of the flower that develops into a seed?		B

Answer Options			
Option A	Option B	Option C	Option D
Ovary	Ovule	Anther	Style

10.	3_15 Science 3556	Reproduction in Plants **(CHAPTER -12)**	Sriram heard somewhere that lettuce seeds would not germinate unless they were covered with soil. To check this, he planted 1 lettuce seed under a layer of soil and placed another on top of the soil. He found that both seeds		D

			germinated, though the one below the soil germinated earlier. What should Sriram do now?		

Answer Options			
Option A	Option B	Option C	Option D
Conclude that what he heard was correct.	Conclude that what he heard was wrong.	Repeat the experiment with two seeds, but placing both below the soil.	Repeat a similar experiment but using about 10 seeds in each group.

11.	3_15 Science 3564	**Reproduction in Plants** **(CHAPTER -12)**	Which of these plant parts become the seeds?		C

Answer Options			
Option A	Option B	Option C	Option D
pollen grains	carpels	ovules	Anthers

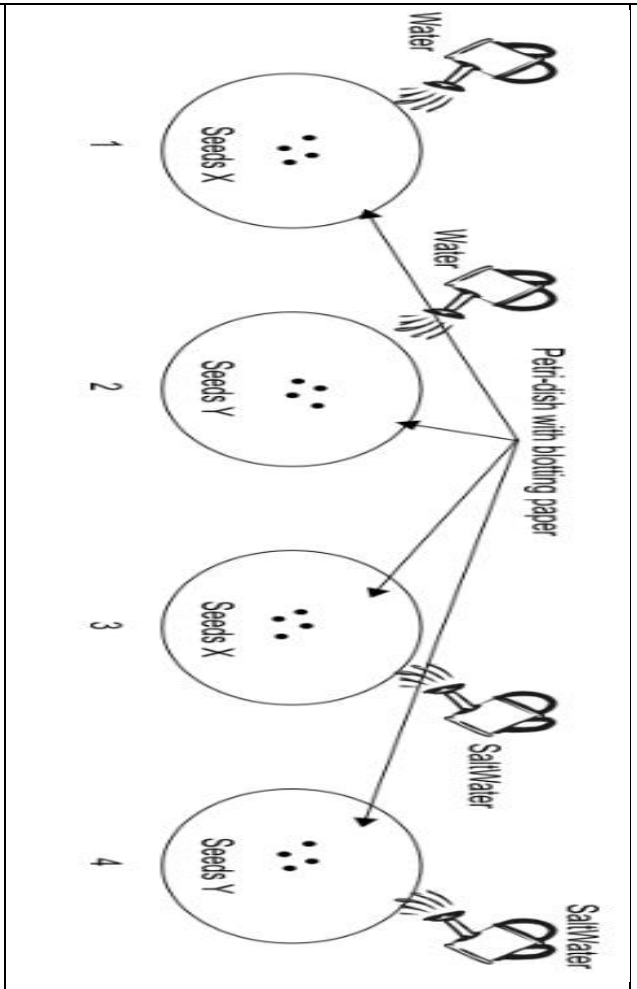
12.	4_25 Science 11945	Reproduction in plants **(CHAPTER -12)**	It is known that light is not required for moist pea seeds to germinate. However, dry seeds will not germinate even if there is light. Lata sets up 4 experiments using similar pea seeds: 1. Dry pea seeds kept in light. 2. Dry pea seeds kept in the dark 3. Moist pea seeds kept in light 4. Moist pea seeds kept in the dark In which case(s) will the seeds germinate?		C

Answer Options			
Option A	**Option B**	**Option C**	**Option D**
only case 1	only case 3	cases 3 and 4	cases 1 and 3

13.	2_10 Science 4160	REPRODUCTION IN PLANTS **(CHAPTER -12)**	Which part of the flower protects the young flower when it is a bud?		**A**

		Answer Options

Option A	Option B	Option C	Option D
Sepal	Stamen	Stigma	Petal

14.	2_9 Science 6073	REPRODUCTION IN PLANTS **(CHAPTER -12)**	Study the experiment described here carefully: Items required: 4 saucers and 4 pieces of blotting paper, some seeds of plant 'X', some seeds of plant 'Y', water and salt. Procedure: Each saucer was covered with a piece of blotting paper. The blotting papers of saucers 1 and 2 were moistened with water while the blotting papers of saucers 3 and 4 were moistened with salt water. The seeds of 'X' were sown in saucers 1 and 3 and the seeds of 'Y' in saucers 2 and 4. All the four saucers were kept on the window-sill. Blotting papers 1 and 2 were kept moist with water and blotting papers 3 and 4 with salt water. Observation: After a day, it was seen that the seeds in saucers 1, 2 and 3 germinated but the seeds in 4 died. What can we conclude from this experiment?		**D**

		Answer Options

Option A	Option B	Option C	Option D
Seeds do not germinate where salt is present.	Seeds germinate only where salt is present	There can be no definite conclusion from this experiment	Some seeds do germinate in salt water and others do not.

15.	**1_3 Science 7328**	**REPRODUCTION IN PLANTS (CHAPTER -12)**	Seeds develop from which of these parts of a plant?		**D**

Answer Options

Option A	Option B	Option C	Option D
Leaf	Stem	Root	Flower

SET-14 **CLASS- VII** **SUBJECT- SCIENCE**

TOPIC- REPRODUCTION IN PLANTS (CHAPTER -12), MOTION AND TIME(CHAPTER -13)

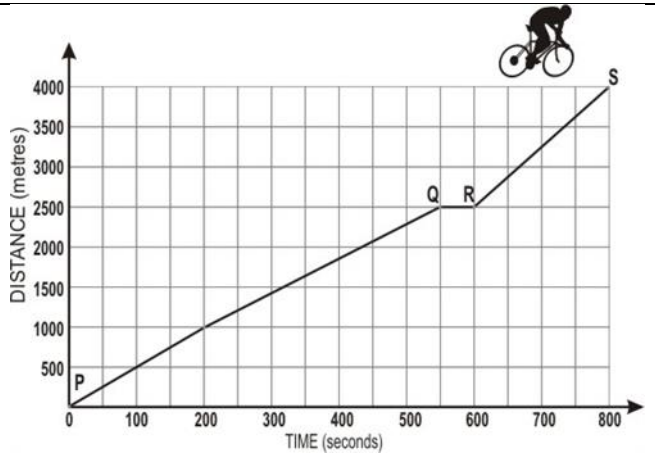
Q.N.	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
1.	**1_3 Science 6640**	**REPRODUCTION IN PLANTS (CHAPTER -12)**	Ashok placed some seeds on moist cotton in a shallow dish. He sprinkled some water on the seeds and put them in the refrigerator. The seeds did not germinate even after two days. What is the most likely reason for this?		**C**

Answer Options

Option A	Option B	Option C	Option D
The seeds did not get enough water.	The seeds did not get enough air.	The seeds were not provided the right temperature for germination.	The refrigerator did not work properly.

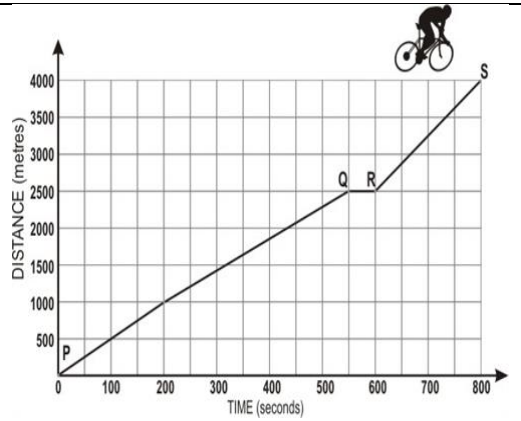
2.	4_24 Science 10264	Reproduction in Plants **CHAPTER -12)**	Reproduction is an important characteristic of living organisms. Which of the following groups do not reproduce? Group I Single.-celled organisms: Bacteria, Amoeba, Paramecium, etc. Group II: Plants: Rose plant, Grass, Coconut tree etc. Group III: Multi-cellular animals: Fungi, Insects, Reptiles, Mammals, etc.		D

Answer Options			
Option A	Option B	Option C	Option D
Group I	Group II	Group I and II	All of them reproduce

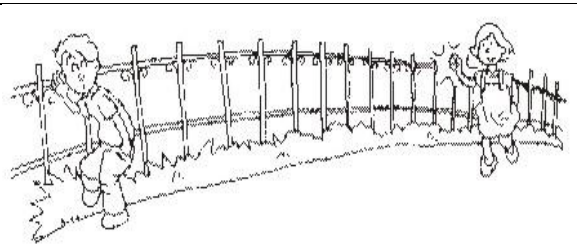
3.	3_17 Science 1512	Motion And Time (CHAPTER 13)	A cyclist starts at a point P and cycles in a straight line to a point S, 4 kilo metres away. His distance is noted every 100 seconds in a graph. Answer the question after studying it. During the journey from P to S		B

Answer Options

		Option A	Option B	Option C	Option D
		the cyclist travelled at the same speed	the cyclist increased his speed after a short break	the cyclist decreased his speed after a short break	the cyclist decreased his speed continuously

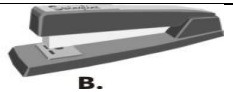
4.	3_17 Science 1513	**Motion And Time** (CHAPTER 13)	A cyclist starts at a point P and cycles in a straight line to a point S, 4 kilometres away. His distance is noted every 100 seconds in a graph. Answer the question after studying it. What was the average speed of the cyclist for the total journey?		C

Answer Options			
Option A	Option B	Option C	Option D
3m/s	4m/s	5m/s	6.67m/s

5.	3_17 Science 1508	Motion and Time (CHAPTER 13)	As the girl taps on the metal railing, the boy listening with his ear to it. How many sound does the boy hear and why?		B

Answer Options			
Option A	Option B	Option C	Option D
Two sounds (Sound travels faster through air than through the railing.)	Two sounds (Sound travels faster through the railings than through air.)	One sound because sound travels only through air.	One sound because sound travels only through the railings.

6.	3_17 Science 1495	Motion and Time (CHAPTER 13)	Which of the following simple machines has the fulcrum between the load and the effort?		C

Answer Options			
Option A	Option B	Option C	Option D
 A.	 B.	 C.	 D.

7.	3_16 Science 2409	Motion and Time (CHAPTER 13)	Shiddarath looked around his neighbourhood and made a list which he thought were examples of inclined planes. Which of the above are NOT examples of inclined planes?	1. ramp | 2. ladder | 3. see saw | 4. stairs | 5. wedge | 6. wheel barrow	D

Answer Options			
Option A	Option B	Option C	Option D
2, 3 and 6	1 and 3	2, 4 and 5	3 and 6

8.	3_16 Science 2413	Motion and Time (CHAPTER 13)	Identify the types of motion that can be observed in the given picture.		B

Answer Options			
Option A	Option B	Option C	Option D

		rectilinear motion and circular motion	circular motion and oscillatory motion	oscillatory motion and rectilinear motion	rectilinear, oscillatory and circular motion

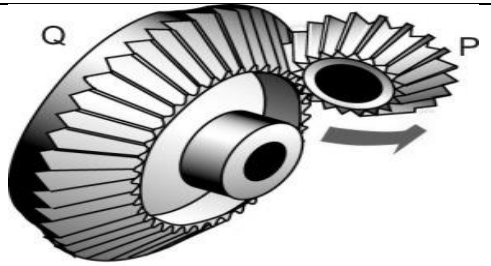
9.	3_16 Science 2421	Motion and Time (CHAPTER 13)	What is the function of the 'quartz' in a quartz watch?		C

Answer Options			
Option A	Option B	Option C	Option D
It is the source of energy that powers the watch.	it is a decorative stone used on the watch face	Its vibrations are used by the watch to keep time.	It is a very hard material that makes the watch durable.

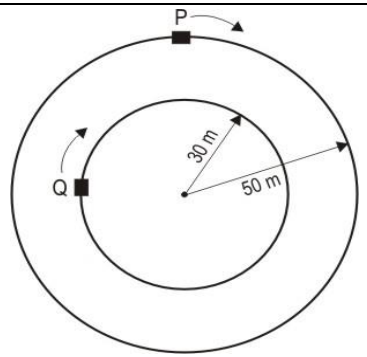
10.	3_16 Science 2440	Motion and Time (CHAPTER 13)	This traffic sign is an indicator that the road ahead.		A

Answer Options			
Option A	Option B	Option C	Option D

		has a steep ascent.	leads to the tip of a mountain.	is curving towards the right.	allows only cars and motorised vehicles.

11.	3_16 Science 2445	**Motion and Time** (CHAPTER 13)	See the gear arrangement shown here. Gears P and Q can only rotate, they cannot shift or move. When gear P turns, gear Q will turn:		C

Answer Options			
Option A	Option B	Option C	Option D
in the same direction, at a slower speed	in the same direction, at a faster speed.	in a different direction, at a slower speed.	in a different direction, at a faster speed.

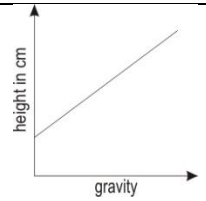
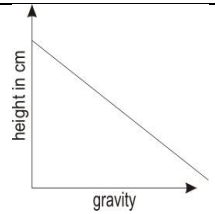
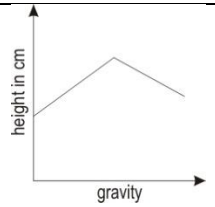
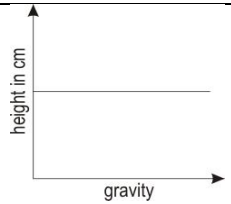
12.	3_17 Science 1538	**Motion And Time** (CHAPTER 13)	Two cars P and Q are moving at constant speeds on circular paths in such a way that when P completes one full circle, Q completes half a circle. The question is based on this. What will be the minimum and maximum distances EVER between P and Q?		B

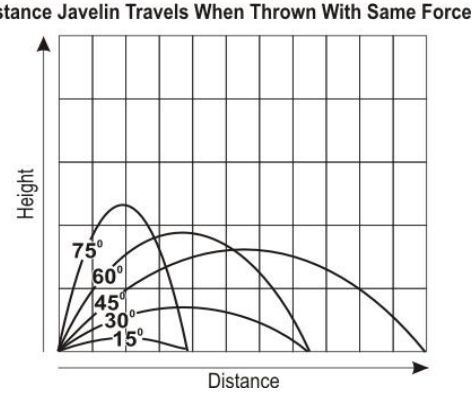
Answer Options

Option A	Option B	Option C	Option D
0 metres and 100 metres	20 metres and 80 metres	27.5 metres and 87.5 metres	30 metres and 70 metres

13.	3_15 Science 3573	Motion and Time (CHAPTER 13)	The table alongside shows the gravity on different planets relative to Earth (Earth gravity = 1). It also shows the height to which a person who can jump 1 metre on Earth would be able to jump on the planet. Which of the following graphs represents this datamost suitably?		B

Planet	Gravity	Height Jumped
Mercury	0.38	263 cm
Venus	0.88	114 cm
Earth	1.00	100 cm
Jupiter	2.64	38 cm
Saturn	1.15	87 cm
Uranus	1.17	85 cm
Neptune	1.2	83 cm

		Answer Options				
		Option A	Option B	Option C	Option D	
						

14.	3_15 Science 3557	Motion and Time (CHAPTER 13)	When a javelin thrower throws the javelin, the distance it travels depends on the force with which it is thrown, as well as the angle at which it is thrown. The graph below shows the distance travelled for different angles when the same force is used. According to the graph, which angle of release would cause the javelin to go the farthest?		C

Answer Options			
Option A	Option B	Option C	Option D
75^0	60^0	45^0	30^0

15.	3_15 Science 3560	Motion and Time (CHAPTER 13)	Some satellites are called 'geo-stationary' - they seem to hover above the earth, as they remain 36,000 km above a single point on the earth's surface and spin with the earth as it rotates. How much time would such a satellite take to complete one revolution of the earth?		B

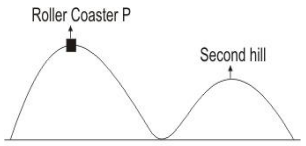
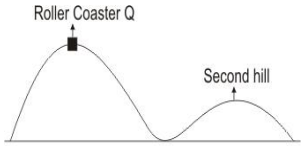
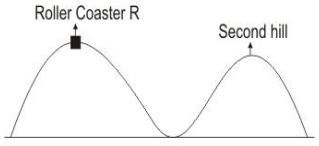
Answer Options			
Option A	Option B	Option C	Option D
12 hours	24 hours	30 days	365 days

SET -15 **CLASS -VII** **SUBJECT – SCIENCE**

TOPIC- MOTION AND TIME (CHAPTER -13)

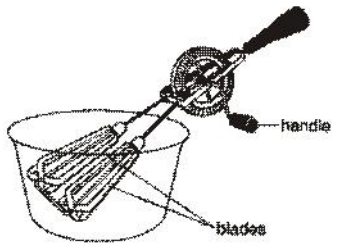
Q.N.	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
1	3_15 Science 3577	**Motion and Time** (CHAPTER 13)	Which roller coaster will have the least speed at the top of the second hill?		**C**

Answer Options

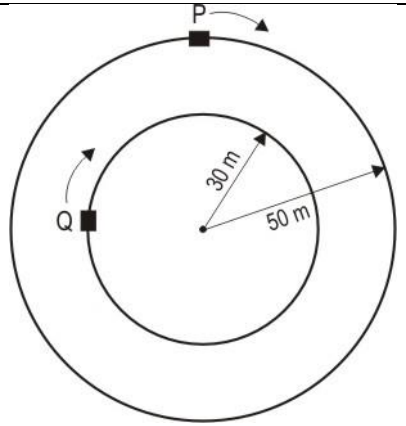
Option A	Option B	Option C	Option D
 **A.**	 **B.**	 **C.**	All will have the same speed.

2.	3_15 Science 3578	Motion and Time (CHAPTER 13)	The unit used to measure distance is metres (m). The unit used to measure time is seconds (s). Speed = Distance / Time. Hence the unit used to measure speed is m/s. Now, momentum= mass x velocity. Velocity has the same unit as that of speed. What would be the unit of momentum?		A

Answer Options			
Option A	Option B	Option C	Option D
kg m/ s	kg m/ s^2	m/s^2	s/kg m

3.	3_15 Science 3561	Motion and Time (CHAPTER 13)	Which of the following is true for the egg beater / lassi maker shown in the picture**?**		C

		Answer Options				
		Option A	Option B	Option C	Option D	
		A lever is used to increase the force applied.	An inclined plane is used to reduce the force required.	A gear is used to change the direction of rotation.	A pulley is used to change the direction of force.	

4.	3_17 Science 1539	Motion and Time (CHAPTER 13)	Two cars P and Q are moving at constant speeds on circular paths in such a way that when P completes one full circle, Q completes half a circle. The question is based on this. Through how many degrees at the centre of its circular path would P have moved when it is at the closest distance to Q for the FIRST time?		C

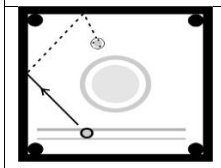
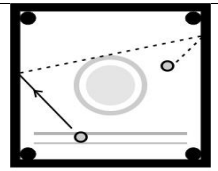
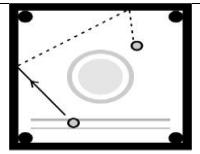
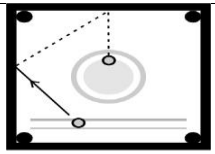
Answer Options			
Option A	Option B	Option C	Option D
180°	360°	540°	720°

5.	1_3 Science 6675	MOTION & TIME (CHAPTER 13)	I am sitting in a train that is moving at a speed of 60 kilometres per hour (kmph). If a train now passes in the opposite direction at a speed of 80 kmph, what would its speed APPEAR to be to me?		D

Answer Options

Option A	Option B	Option C	Option D
20 kmph in the direction of my train.	20 kmph in the direction opposite to my train.	140 kmph in the direction of my train.	140 kmph in the direction opposite to my train.

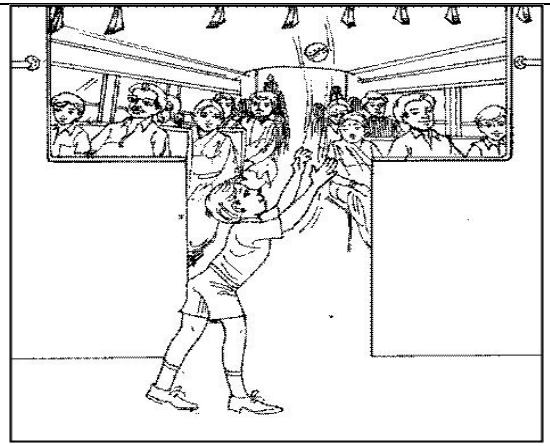
6.	2_9 Science 4985	MOTION & TIME (CHAPTER 13)	Identify the picture which shows the correct path of the striker on the carrom board		A

		Answer Options Option A:  A. Option B:  B. Option C:  C. Option D:  D.

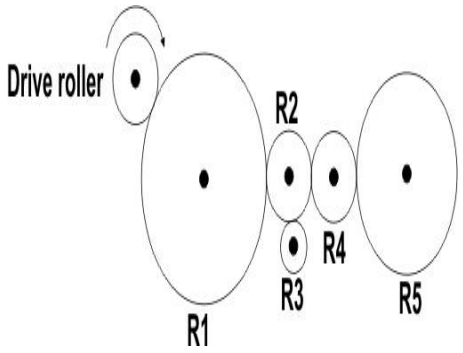
7.	1_3 Science 7351	MOTION & TIME (CHAPTER 13)	Ayesha is travelling in a train. As she is looking out of the window, another train on an adjacent track moving in the same direction overtakes her train. Which of the following is TRUE?		B

Answer Options

Option A	Option B	Option C	Option D
To Ayesha, the other train will appear to be travelling FASTER than it actually is.	To Ayesha, the other train will appear to be travelling SLOWER than it actually is.	To Ayesha, the other train will appear to be travelling AT THE SAME SPEED as it actually is.	To Ayesha, the other train will appear to be travelling in the opposite direction.

8.	4_23 Science 9047	Motion & Time (CHAPTER 13)	In a compartment of a moving train a boy throws up a ball. Where is the ball MOST likely to fall?		A

Answer Options			
Option A	Option B	Option C	Option D
into the boy's own hands	ahead of the boy	behind the boy	(it depends on the direction of motion of the train)

9.	4_23 Science 9051	**Motion & Time** (CHAPTER 13)	Many printing presses use rollers, which are long cylinders often made of rubber, to transfer inks. Rollers are usually friction driven by a drive roller. In the figure given, which roller(s) will turn in the same direction as the drive roller?		B

		Answer Options			
		Option A	Option B	Option C	Option D
		Only R1	R2 and R5	R3 and R4	R4 and R5

10.	4_23 Science 9052	Motion & Time (CHAPTER 13)	If a cricket pitch were made vertical, it would approximately be as tall as a building with how many storeys?		B
		Answer Options			
		Option A	Option B	Option C	Option D
		one	four	ten	thirty

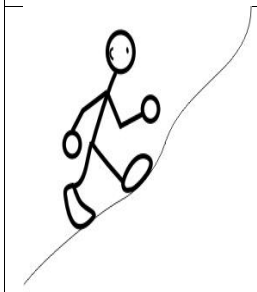
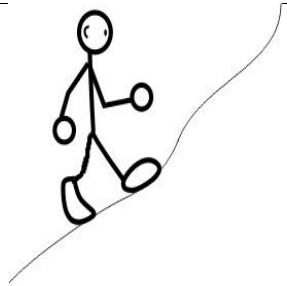
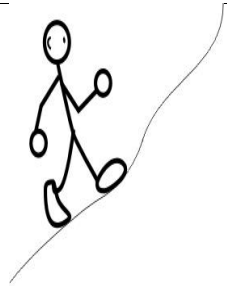
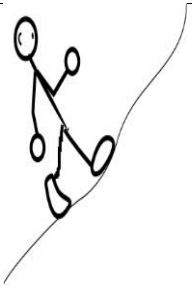
11.	4_23 Science 9070	**Motion & Time** (CHAPTER 13)	Bangalore is to the _____of Chennai.	The cities Bangalore and Chennai are almost at the same latitude. Study the table given below and answer the question	D

City	Bangalore	Chennai
Latitude	13.0°N	13.0°N
Longitude	77.6°E	80.3°E
Height above sea level	920 metres	15 metres
Distance from sea	330 km	0 km
Average temperature	23°C	28°C
Average annual rainfall	90 cm	126 cm
Days in year with temperature over 35°C	9	95
Days in year with temperature below 18°C	91	2

		Answer Options				
		Option A	Option B	Option C	Option D	
		North	South	East	West	

12.	1_3 Science 7327	MOTION & TIME (CHAPTER 13)	A person climbs a steep hill. Identify the posture of the person while climbing the hill.		**A**

Answer Options

Option A	Option B	Option C	Option D
 A	 B.	 C.	 D.

13.	1_3 Science 6677	MOTION & TIME (CHAPTER 13)	The unit of distance is metres (m). Speed is the rate of change of distance. Its unit is metres / second (m/s).Which one of these could be a unit of rate of change of speed?		**C**

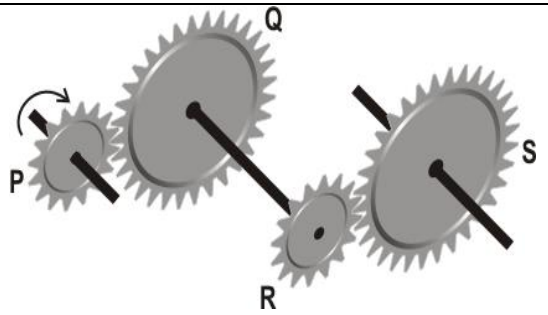
Answer Options

Option A	Option B	Option C	Option D
m.	m/s.	m/s^2	Kmph

14.	2_10 Science 4173	MOTION & TIME (CHAPTER 13)	Sanjana is lying down on the top berth of a train compartment. The train is travelling at a constant speed. Sanjana now drops a ball from the top berth. Where will the ball fall, compared to where it would have fallen if the train were not moving?		A

Answer Options

Option A	Option B	Option C	Option D
Exactly at the same position.	A little ahead of that position in the direction of the train's motion.	A little behind that position with respect to the direction of the train's motion.	It is not possible to specify - it may fall at A, B or C above.

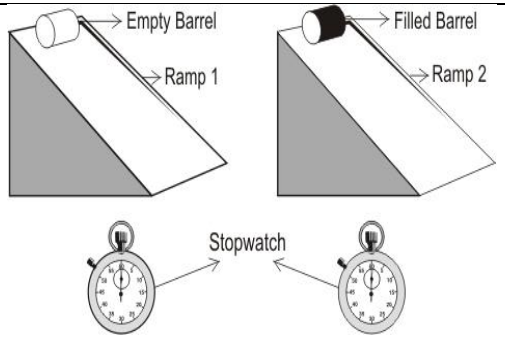
15.	2_10 Science 4179	MOTION & TIME (CHAPTER 13)	In the arrangement shown the toothed wheel P is making 10 turns per minute in a clock wise direction. What can be said about wheel S? (The connecting rods can only rotate.)		B

Answer Options

Option A	Option B	Option C	Option D
It will turn at the same speed in clockwise direction.	It will turn at a lower speed in clockwise direction.	It will turn at a faster speed in clockwise direction.	It will not turn at all in any direction.

SET -16 **CLASS -VII** **SUBJECT – SCIENCE**

TOPIC- MOTION AND TIME (CHAPTER -13)

Q.N.	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
1.	3_15 Science 3572	Motion and Time (Chapter-13)	Students wanted to find out if an empty barrel would roll down a ramp faster than one filled with sand. For their results to be valid, they should further ensure all of these, EXCEPT ONE. Which one need they NOT ensure?		C

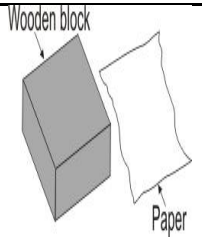
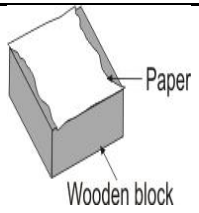
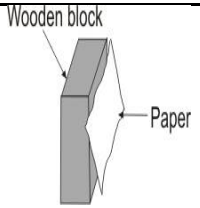
Answer Options			
Option A	Option B	Option C	Option D
That the barrels used are identical (when empty).	That the ramps used are identical.	That the barrels are released simultaneously.	That the barrels are released from the same point.

2.	4_24 Science 10283	**Motion and Time** (Chapter-13)	If in a car race, the timekeeper forgets to note the time at which the race starts, which of the following can he definitely NOT determine?		C

Answer Options			
Option A	Option B	Option C	Option D
The order in which the participants finished the race.	The time difference between the winner and the runner up.	The time taken by the winner to complete the race.	The number of participants who did not qualify among the first three.

3.	3_15 Science 3580	Motion and Time (Chapter-13)	In which of these arrangements will the solid block of wood and piece of paper shown reach the ground at the same time when dropped together?		B

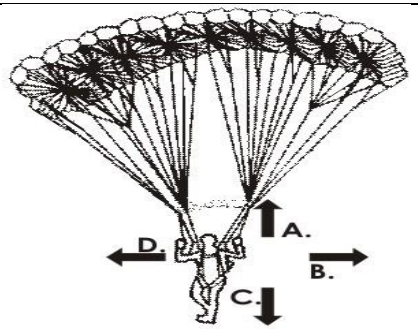
Answer Options			
Option A	Option B	Option C	Option D

					In no arrangement will that happen.

4.	3_17 Science 1511	**Motion And Time** (Chapter-13)	Which of these could be the width of a person's little finger?		C

Answer Options

Option A	Option B	Option C	Option D
1m	0.1m	0.01m	0.001m

5.	3_17 Science 1502	Motion and Time (Chapter-13)	The picture shows a parachutist falling at a steady speed. Which of the arrows represents the force of gravity on the parachutist?		C

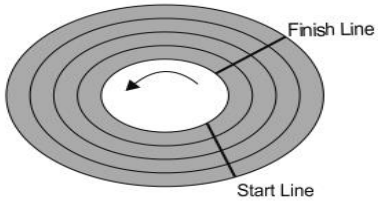
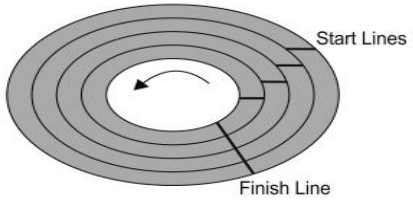
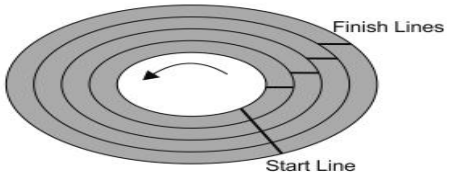
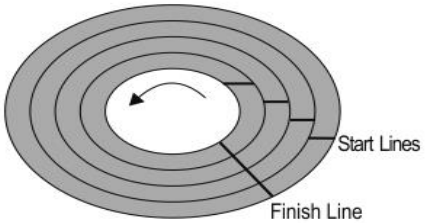
Answer Options			
Option A	Option B	Option C	Option D
A	B	C	D

6.	2_9 Science 6077	MOTION & TIME (Chapter-13)	If the earth is rotating, why cannot we get on to an air balloon, rise in the air and watch different parts of the earth move under us?		**D**

		Answer Options Option A: We can do it - it will work. Option B: This is because the earth has an atmosphere. Option C: This is because the earth has a gravitational pull. Option D: This is because the balloon will also move with the earth.

7.	3_17 Science 1531	**Motion And Time** (Chapter-13)	In military codes, different letters are assigned to different time zones. The letters assigned to four time zones are given below: Which of these zones is furthest WEST?	**Time zone** / **Code** -4 / Q +7 / G -10 / W +11 / L	**C**

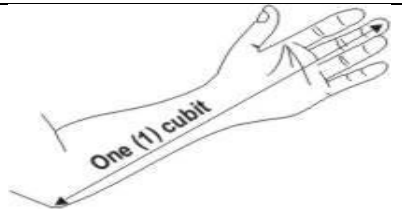
Answer Options			
Option A	Option B	Option C	Option D
Q	G	W	L

8.	3_17 Science 1535	**Motion And Time** (Chapter-13)	Spring Meadows School is organizing a sports meet. Which is the correct method of arranging the start and finish line for the tracks events? (Note the direction of running shown by the arrow.	 Figure A  Figure B  Figure C  Figure D	B
		Answer Options			

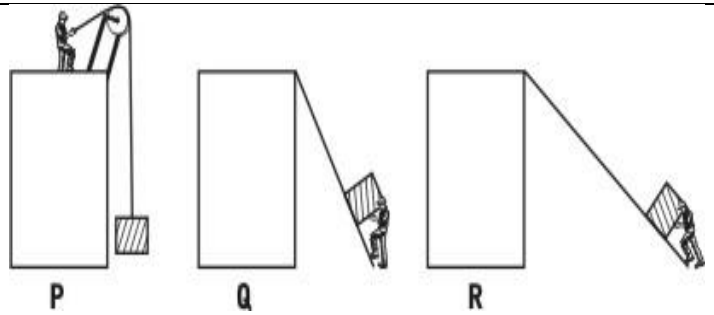
		Option A	Option B	Option C	Option D	
		A	B	C	D	

9.	4_25 Science 11896	Motion and time (Chapter-13)	About how far away is the post box from the boy on the real street?		C

Answer Options			
Option A	Option B	Option C	Option D
5 metres	10 metres	15 metres	20 metres

10.	4_24 Science 10265	Motion and Time (Chapter-13)	The 'cubit' is among the first recorded units of length used by ancient people. One cubit is equal to the length from the elbow to the tip of the longest finger of a person. If this measure (cubit) was used by some students of a school to measure the length of a 30 metre long corridor, how much would it measure?		D

		Answer Options				
		Option A	Option B	Option C	Option D	
		15 cubits	30 cubits	120 cubits	will vary from student to student	

11.	4_25 Science 11941	Motion and time (Chapter-13)	Chandrasekhar has to move up a load and is considering three different ways of doing it, as shown in the figure. Which one will require the least force?		C

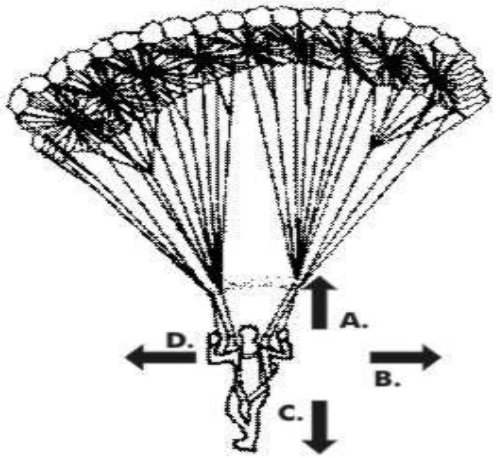
Answer Options			
Option A	Option B	Option C	Option D
P	Q	R	All will require the same force.

12.	4_24 Science 10263	Motion and Time (Chapter-13)	The United Nations Committee for the Transport of Dangerous Goods has specified symbols to be used while transporting dangerous goods. Which of the following would carry this sign while being transported?		A

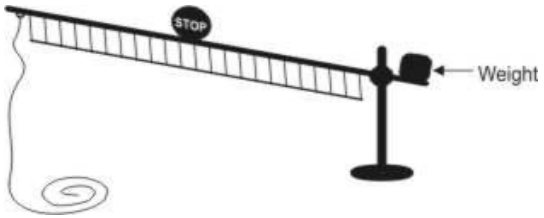
Answer Options			
Option A	Option B	Option C	Option D
aviation fuel	sodium chloride	glucose	Water

13.	4_24 Science 10305	**Motion and Time** (Chapter-13)	How much MORE time will a CAR that was travelling at 60 km/h take to travel from P to T due to the 4 speed breakers?		B

Answer Options			
Option A	Option B	Option C	Option D
15 seconds	45 seconds	1.5 minutes	2 minutes

14.	4_24 Science 10280	**Motion and Time** (Chapter-13)	Which arrow, in the figure shown below, represents the force that allows the parachutist to land slowly and safely?		A

Answer Options			
Option A	Option B	Option C	Option D
A	B	C	D

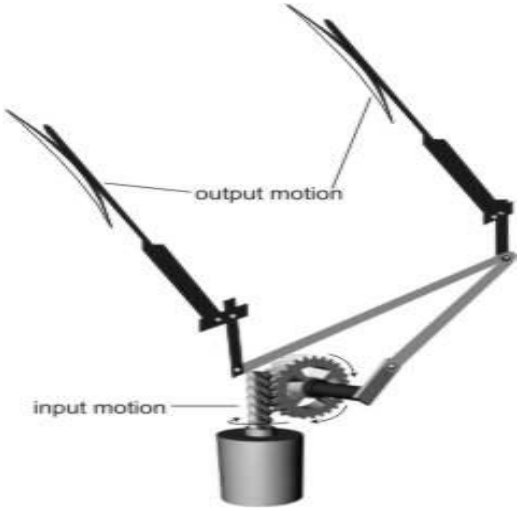
15.	4_24 Science 10301	Motion and Time (Chapter-13)	Many gates at railway crossings are operated manually. A typical gate consists of a rod usually made of iron, consisting of a heavy weight at one end as shown.What is the need for the heavy weight at one end of the rod?		B

Answer Options

		Option A	Option B	Option C	Option D
		to help close the gate at the railway crossing	to help open the gate at the railway crossing	to strengthen the gate in case of any accident	to make unauthorized opening of the gate difficult

SET -17 **CLASS -VII** **SUBJECT – SCIENCE**

TOPIC- MOTION AND TIME (CH.-13) , ELECTRIC CURRENT AND ITS EFFECTS (CH.-14)

Q.N.	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
1.	4_24 Science 10291	**Motion and Time** **(Chapter -13)**	There are four basic types of motion in mechanical systems: ROTARY MOTION is turning round in a circle; LINEAR MOTION is moving in a straight line; RECIPROCATING MOTION is moving backwards and forwards in a straight line; OSCILLATING MOTION is swinging from side to side Many mechanical devices convert motion from one type to another. What is the input and output motion for the equipment given alongside? (See the arrows showing the direction and type of the input motion.)	 | | Input motion type | Output motion type | | A. | Reciprocating | Linear | | B. | Rotary | Linear | | C. | Oscillating | Reciprocating | | D. | Rotary | Oscillating |	D

		Answer Options			
		Option A	Option B	Option C	Option D
		A	B	C	D

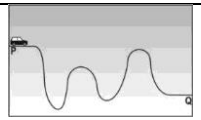
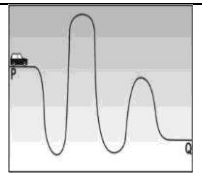
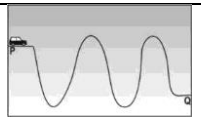
2.	4_24 Science 10306	Motion and Time **(Chapter -13)**	Assume that a cycle and a car reach speed breaker P at the same time. What can we say about the distance between the two vehicles at T, compared to if the speed breakers had NOT been there?		C

Answer Options			
Option A	Option B	Option C	Option D
The vehicles will cross T at the SAME TIME whether or not there are speed breakers.	The distance between the vehicles will be MORE when there are speed breakers.	The distance between the vehicles will be LESS when there are speed breakers.	The distance between the vehicles will be LESS, but the cycle will be ahead of the car.

3.	4_24 Science 10296	**Motion and Time** **(Chapter -13)**	See this figure of an hour glass (or sand clock) which is used to measure time. One of the important factors that determines the ability of the hour glass to measure time accurately is the fineness of the sand in it. Coarse sand will wear away the glass, making the measurement inaccurate. In what way will the time measured by an hour glass having coarse sand be inaccurate (assuming no other defect in the hour glass)?		A

Answer Options			
Option A	Option B	Option C	Option D
The time taken for the sand to drain completely will be less than what it should be.	The time taken for the sand to drain completely will be more than what it should be.	The hour glass will not function at all due to the effect of the coarse sand.	(The hour glass will continue to be accurate and it will not be affected by coarse sand.)

4.	4_24 Science 10294	Motion and Time **(Chapter -13)**	A roller coaster track has to be designed with P as the starting point - that is, the coaster has to start from rest at point P, and travel along the track up to a point Q. Which of these tracks would make that possible?		**A**

Answer Options			
Option A	Option B	Option C	Option D
			All of them are possible

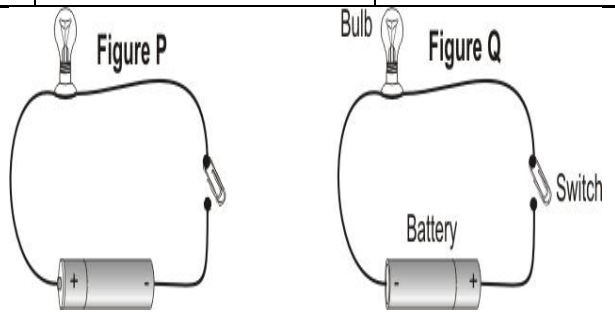
5.	3_15 Science 3540 5.2.3	**Electric Current and its Effects** **(Chapter -14)**	A torch uses three different forms of energy. Which of these shows the energy changes in the correct order?		**D**

Answer Options

		Option A	Option B	Option C	Option D
		Mechanical----> Heat----> Chemical	**Heat-----> Chemical-----> Light**	**Electrical------> Mechanical----> Chemical**	**Chemical------> Electrical-----> Light**

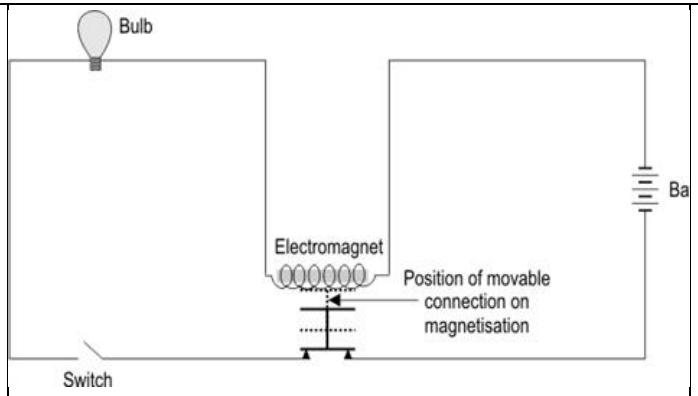
6.	3_15 Science 3546 5.2.3	**Electric Current and its Effects** **(Chapter -14)**	The table given below classifies a few substances as good or bad conductors of electricity. Which substance has been put under the wrong heading?	Good Conductors / Bad Conductors Graphite / Plastic Wax / Air Copper / Paper Iron / Cloth	**C**

Answer Options			
Option A	Option B	Option C	Option D
Graphite	Air	Wax	Cloth

7.	3_16 Science 2419	**Electric current and Its Effect** **(Chapter -14)**	See the circuit shown below in figure P. If the battery is connected the other way (as shown in figure Q), what will happen?		**A**

Answer Options

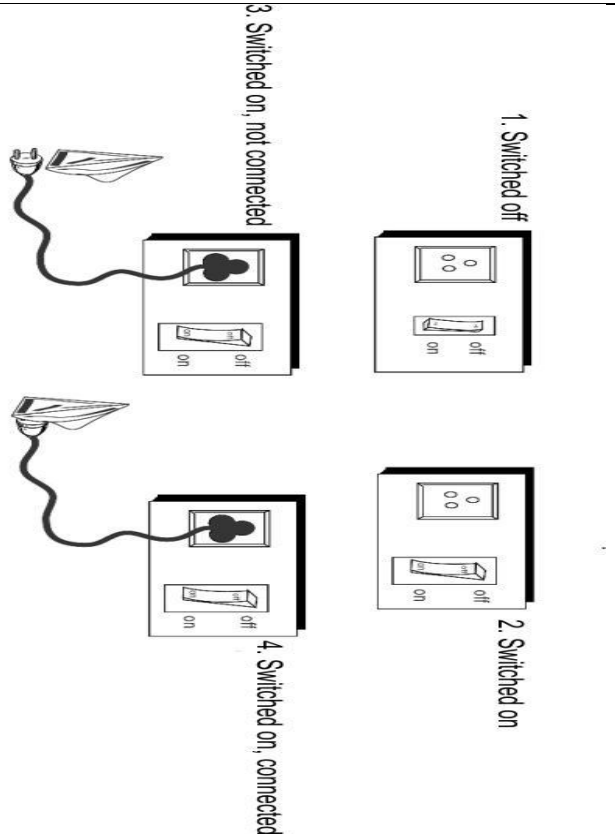
			Option A	Option B	Option C	Option D
			The bulb will glow in exactly the same way.	The bulb will glow but less brightly.	The bulb will blow or fuse out.	The bulb will not glow, but not get damaged.

8.	2_9 Science 5064	ELECTRIC CURRENT AND ITS EFFECT **(Chapter -14)**	Study this electrical circuit. It consists of a powerful battery, a bulb, an electromagnet and a movable connection. The connection is designed in such a way that it closes (that is, it allows electric current to pass) when the electromagnet is not magnetised; but opens when the electromagnet is magnetised. If the electromagnet takes 5 seconds to get magnetised, what will be status of the electric bulb?		**B**

			Answer Options			
			Option A	Option B	Option C	Option D
			It will remain OFF - it will not glow at all.	It will alternate between ON and OFF states.	It will come ON after some seconds and keep glowing.	It will stay ON for a few seconds and then go OFF.

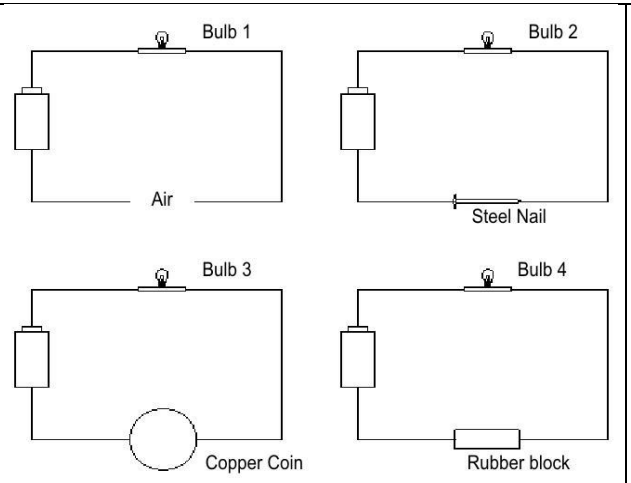
9.	2_10 SCIENCE 4150 17.5.9	ELECTRIC CURRENT AND ITS EFFECT **(Chapter -14)**	Rita wants to send a written message and a picture to her friend. Which of the following should she use?		**C**

Answer Options			
Option A	**Option B**	**Option C**	**Option D**
A pager	A telephone	A fax machine	A television

10.	**2_9** **SCIENCE** **6058** **17.5.9**	**ELECTRIC CURRENT AND ITS EFFECT** **(Chapter -14)**	The figure shows an electric iron - it uses a wire that can be detached from the main iron. In which of these cases will electricity be consumed?		**A**

Answer Options

Option A	**Option B**	**Option C**	**Option D**
Only 4	Only 3 and 4	Only 2, 3 and 4	All the cases.

11.	**2_9** **SCIENCE** **4981** **17.5.9**	**ELECTRIC CURRENT AND ITS EFFECT** **(Chapter -14)**	The diagram shows a flashlight battery and a bulb connected by wires to various substances. Which of the bulbs will light?		**B**

Answer Options

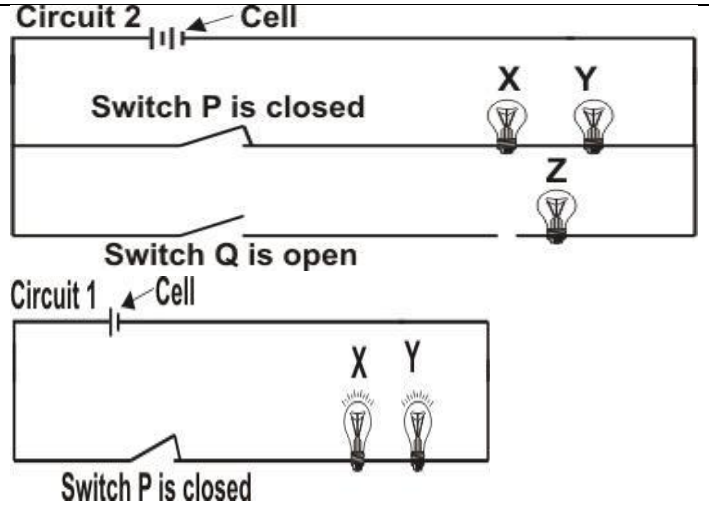
Option A	**Option B**	**Option C**	**Option D**
1 and 2 only	2 and 3 only	3 and 4 only	1, 2 and 3 only

12.	**2_10** **SCIENCE** **4169** **17.5.9**	**ELECTRIC CURRENT AND ITS EFFECT** **(Chapter -14)**	Many electrical devices like televisions and electric irons have plugs which have 3 pins. However, other devices sometimes work with only 2 pins. Why is the third pin necessary?		**C**

		Answer Options				
		Option A	**Option B**	**Option C**	**Option D**	
		It is not necessary; it is only to provide a better grip.	Since the sockets often have three holes, the third pin fits into the third hole.	It is provided for safety in case electricity leaks onto the body of the appliance.	It allows the electric device to draw more power than it could with only 2 pins.	

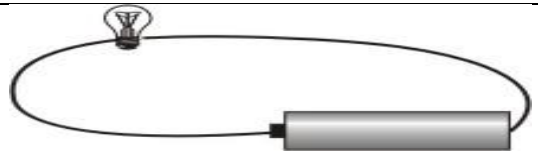
13.	2_9 SCIENCE 6043	ELECTRIC CURRENT AND ITS EFFECT **(Chapter -14)**	When a plastic spoon is rubbed on a woollen cloth and held above a mixture of salt and pepper, pepper jumps to the spoon. Choose the best reason for this:		**C**

Answer Options				
Option A	**Option B**	**Option C**	**Option D**	
Air pushes the pepper towards the spoon.	The spoon temporarily gets magnetised.	The spoon temporarily gets charged with static electricity.	Gravitational attraction pulls the pepper to the spoon.	

14.	**2_10** **SCIENCE** **4180** **17.5.9**	**ELECTRIC CURRENT AND ITS EFFECT** **(Chapter -14)**	See Circuit 1. Bulbs X and Y are glowing. If a second cell is added to the circuit as shown in Circuit 2, with switch P closed and switch Q open, what would happen to bulbs X, Y and Z?.	 **Options** / **Brightness of X and Y** / **Z** **A.** Doubles / Not lit **B.** Decreases / Not lit **C.** Increases / lit **D.** Doubles / lit	**A**

Answer Options

Option A	**Option B**	**Option C**	**Option D**
A	B	C	D

15.	3_17 Science 1523	**Electric current and its Effects** **(Chapter -14)**	When connected as shown, the bulb glows, but dimly. Which of these CAN be the explanation for this:		C

Answer Options			
Option A	Option B	Option C	Option D
The wires are not touching the battery or bulb.	The bulb is fused (that is, its filament is broken.)	The battery is weak and not producing enough electricity.	The battery is connected the wrong way around.

SET -18 **CLASS -VII** **SUBJECT – SCIENCE**

TOPIC- ELECTRIC CURRENT AND ITS EFFECTS (CH.-14) , LIGHT (CH.15)

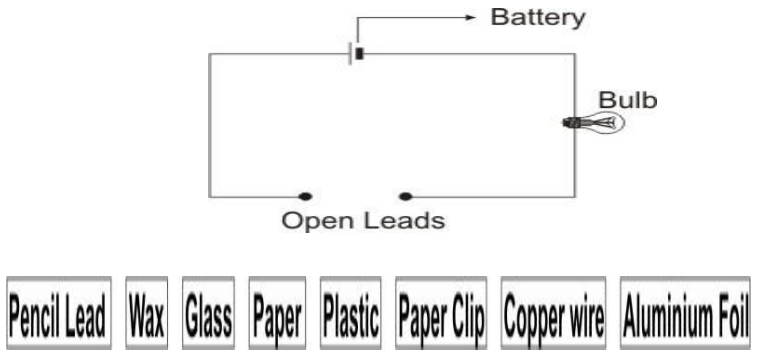
Q. N.	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
1.	4_25 Science 11969	Electric current and its Effect	A small pocket radio can be operated either using 4 small cells (batteries) or using mains electric power. How is this possible?		D

Answer Options			
Option A	Option B	Option C	Option D
The voltage from both sources is the same.	The radio works within a large range of voltages.	The electric power charges the cells that operate the radio.	The mains electric power voltage is reduced to operate the radio.

2.	4_23 Science 9053	Electric current and its Effect	Will a battery that is used in a torch light up a regular 60W bulb used in homes?		D

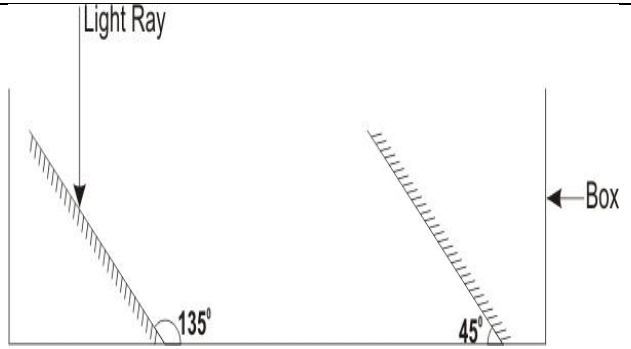
Answer Options

Option A	Option B	Option C	Option D
Yes, it will and the bulb will glow quite brightly.	Yes, it will but the bulb will glow dimly.	No, it will not because a battery does not produce electricity.	No, it will not because the current will not be sufficient.

3.	4_23 Science 9065	**Electric current and its Effect**	The setup shown here is to be used by group of students to classify materials as conducting and non-conducting. The materials they want to classify are. What is the very FIRST thing that they should do before starting to test any materials?		**D**

Answer Options

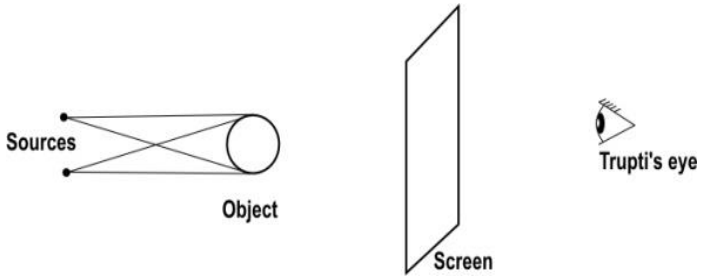
		Option A	Option B	Option C	Option D
		Place the items one by one between the open leads given and if the bulb glows then list them as conductors.	Check with a person working in the laboratory whether the given materials are conductors.	Place a known insulator between the leads given and check if the bulb glows.	Without placing anything between the open leads, connect the circuit and check if the bulb lights up.

4.	3_16 Science 2424	**Light**	An open box has two mirrors arranged as shown, with a ray of light incident on one of the mirrors. How many times will the ray reflect before it leaves the box?		D

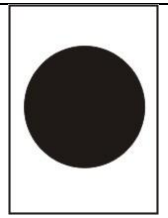
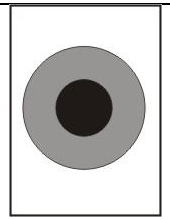
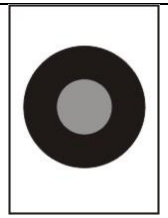
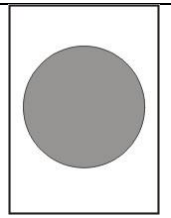
Answer Options			
Option A	Option B	Option C	Option D
2	3	5	The ray will never leave the box

5.	3_16 Science 2443	**Light**	Which phenomenon of light is illustrated by the pair of boards shown here?		**D**

Answer Options			
Option A	Option B	Option C	Option D
Refraction	Lateral displacement	Dispersion	Lateral inversion

6.	4_23 Science 9069	**Light**	Which of the following will be the shadows that Trupti will see on the translucent screen, if a sphere is held between two-point sources of light and the screen?		**B**

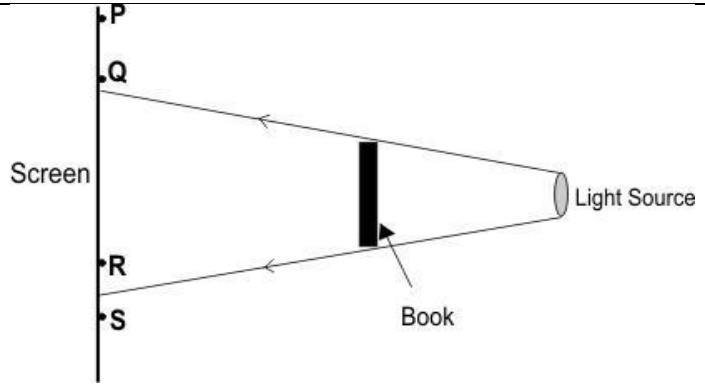
Answer Options

		Option A	Option B	Option C	Option D
					

7.	1_3 SCIENCE 7341	LIGHT	Neha focused a magnifying glass on to a tissue paper and held it. After a while, the tissue paper caught fire. Identify the statement that provides the correct explanation for this observation.		**B**

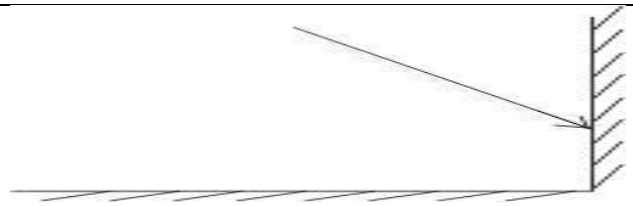
Answer Options

Option A	**Option B**	**Option C**	**Option D**
Neha lit the tissue paper.	The magnifying glass focuses the heat from the Sun's radiation.	The magnifying glass is a good conductor of heat and transmits the heat to the paper.	Air is a good conductor of heat and transmits the heat to the paper.

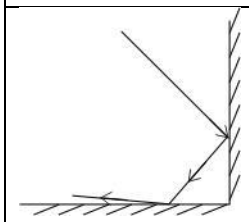
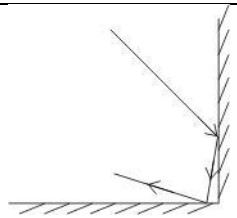
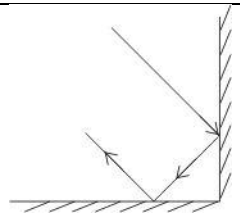
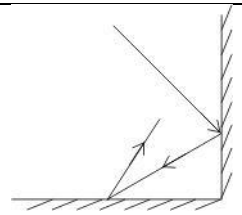
8.	1_3 SCIENCE 7359	LIGHT	Here is a scale drawing of an arrangement of a LIGHT SOURCE, BOOK and SCREEN in a darkened room. Which of the options below shows the correct situation at points P, Q, R and S on the screen?	 Brightly Lit / Partly in Shadow / Completely Dark A. P / R and S / Q B. P / Q and S / R C. Q and S / P / R D. R / Q / P and R	**B**

Answer Options

Option A	Option B	Option C	Option D
A	B	C	D

9.	1_3 SCIENCE 6682	LIGHT	Which one of the diagrams below correctly shows the path of the reflected ray?		**C**

Answer Options

Option A	**Option B**	**Option C**	**Option D**
			

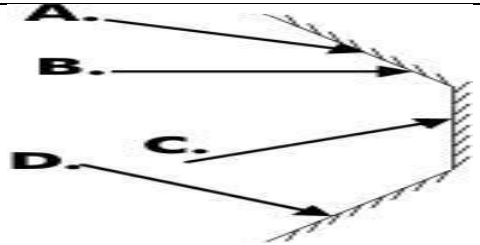
10.	2_10 SCIENCE 4144	LIGHT	Veena observes the time in the clock shown in picture, through a MIRROR and thinks it is 9:40. What would be the actual time?		**D**

		Answer Options **Option A**: 3:20:00 AM **Option B**: 9:40:00AM **Option C**: 3:40:00 AM **Option D**: 2:20:00 AM

11.	**2_10** **SCIENCE** **4178**	**LIGHT**	Shown in picture is the flag of a country. Blue, Green and Red are primary colours and Yellow = Red + Green. If the above flag is seen through a red filter, it will look like		**D**

Answer Options

Option A	**Option B**	**Option C**	**Option D**
A GREEN / YELLOW / BLUE	**B** RED / GREEN / BLUE	**C** GREEN / RED / BLACK	**D** BLACK / RED / BLACK

12.	**2_9** **SCIENCE** **6079**	**LIGHT**	Which of these rays shown here will strike each mirror either directly or after reflection?		**A**

Answer Options

Option A	**Option B**	**Option C**	**Option D**
A	B	C	D

13.	2_10 SCIENCE 4152	LIGHT	If our eyes did not have tear glands, what would happen?		**D**

Answer Options

Option A	**Option B**	**Option C**	**Option D**
Nothing. These glands are not really necessary.	The only effect would be that we would not be able to cry.	We would become blind immediately since tears are needed to see.	Our eyes would get damaged since the tears provide lubrication.

14.	2_10 SCIENCE 4163	LIGHT	A crowd is watching a firework display. They see the firework explode and then hear the noise of the explosion a little later. Why does this happen?		**A**

Answer Options

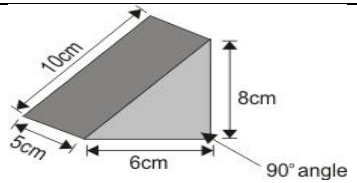
Option A	**Option B**	**Option C**	**Option D**
Light travels faster than sound.	Sound travels upwards and then moves towards the crowds.	The sound is produced after the light.	Sound is blocked by the layers of air it passes through.

15.	4_25 Science 11731	Light	George is running towards the finish line in a race. The sun is casting his shadow as shown. In which direction is George running?		**B**

Answer Options			
Option A	**Option B**	**Option C**	**Option D**
definitely north-west	either north-east or south-west	definitely south-west	it is not possible to tell from the given information

SET -19 **CLASS -VII** **SUBJECT – SCIENCE**

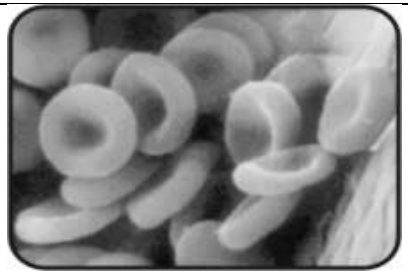
TOPIC- LIGHT (CH.15) , WATER: A PRECIOUS RESOURCE (CH.16)

Q.N.	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
1.	3_17 Science 1532	**Light**	A triangular wedge is placed as shown on a flat surface. One of the angles is a right angle as shown. when seen from DIRECTLY ABOVE IT, what will it look like	 	**B**

Answer Options			
Option A	Option B	Option C	Option D
A	B	C	D

2	4_24 Science 10278	**Light**	Galileo, in order to measure the speed of light, performed this simple experiment: He and his assistant each took a lantern that had a shutter in front of it, and stood on hilltops one mile apart in the night. Galileo was to flash his lantern, and the assistant was to open the shutter of his own lantern as soon as he saw the light from Galileo's lantern. Galileo had planned to measure the time taken for light to travel from one hill to the other and back, and calculate the speed of light using the formula, Speed = distance travelled / time taken but he could not measure the speed of light using this method. What could have been the reason for this?		**C**

Answer Options			
Option A	Option B	Option C	Option D
The distance between the two hills was too much for them to see the light from the other person's lantern.	Light does not travel in straight lines and so the distance travelled by it cannot be measured.	The time taken for the light to travel would have been too little to have been measured by them.	Light does not travel because it is present everywhere, so its 'speed' cannot be calculated.

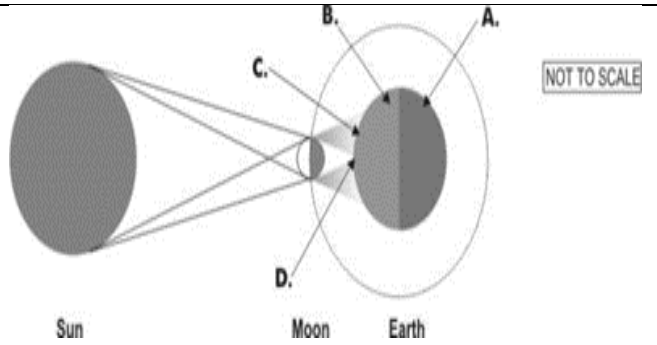
3.	4_24 Science 10286	Light	Shown here is an image seen in a microscope, enlarged approximately 100,000 times. This image could be of		**C**

Answer Options			
Option A	Option B	Option C	Option D
sugar crystals	electrons	blood cells	mustard seeds

4.	4_24 Science 10290	Light	A plant was exposed to different intervals of light and darkness to check the flowering of the plant. The table below shows the observations recorded. What can be said about the flowering of the plant based on the data given in the table above?		**A**

Light (hours)	Dark (hours)	Flowering
17	7	No
16	8	No
15.5	8.5	Yes
15	9	Yes
14	10	Yes
14	7	No
17	9	Yes
8.5	9	Yes

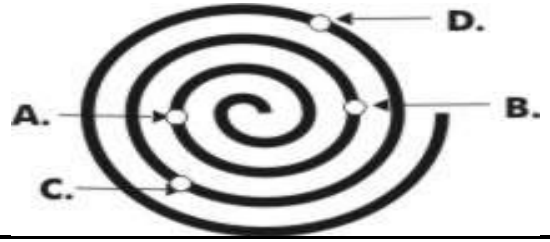
Answer Options			
Option A	Option B	Option C	Option D
A minimum duration of darkness is necessary for the plant to flower.	A minimum duration of light is necessary for the plant to flower.	The plant flowers only when exposed to different intervals of light and darkness.	Flowering does not depend on the amount of light or darkness.

5.	4_24 Science 10293	Light	Given below is a diagrammatic representation of a solar eclipse. In which of the places shown on earth will a PARTIAL SOLAR ECLIPSE be visible?		C

Answer Options			
Option A	Option B	Option C	Option D
A	B	C	D

6.	4_24 Science 10268	Light	In a cricket stadium, when the floodlights were switched on at 7pm, multiple shadows of the stumps appeared. The lengths of the shadows of the stumps would have		**D**

Answer Options			
Option A	Option B	Option C	Option D
increased as the match progressed	decreased as the match progressed	first increased and then decreased.	remained the same throughout the match.

7.	4_24 Science 10277	**Light**	Given below is the top view of a mosquito coil. If it is lit at both its ends, at which point will the two lighted ends meet?		**C**

Answer Options			
Option A	Option B	Option C	Option D
A	B	C	D

8.	4_24 Science 10262	Light	We see an object?		**A**

Answer Options			
Option A	Option B	Option C	Option D
When it either emits or reflects light.	Only when it reflects light.	Only when it emits light.	When it allows light to pass through itself.

9.	4_24 Science 10284	**Light**	If the word given above is seen in a mirror, it will look like,	AMBULANCE	**C**

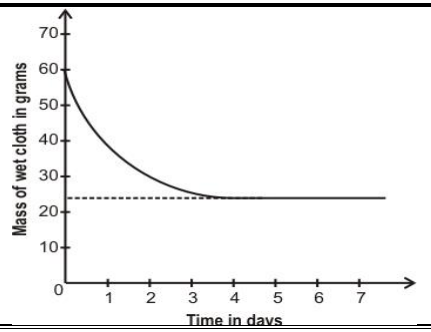
Answer Options			
Option A	Option B	Option C	Option D

		AMBULANCE	ECNALUBMA	AMBULANCE	ECNALUBMA

10.	1_3 Science 6645	WATER: A PRECIOUS RESOURCE	The source of energy for the Earth's water cycle is _____.		**B**

Answer Options

Option A	**Option B**	**Option C**	**Option D**
The wind.	The sun's radiation.	The earth's radiation.	The sun's gravity.

11.	2_10 Science 4158	Water: A Precious Resource	A wet cloth was placed on a balance and left for several days. The change in its mass is shown in the adjacent graph : What was the mass of water in the cloth at the start of the experiment?		**B**

Answer Options

Option A	Option B	Option C	Option D
60 g	36 g	24 g	10 g

12.	1_3 Science 7334	Water: A Precious Resource	The students of a class were given a few substances and asked to classify them as more dense than water or as less dense than water. How should they start?		**C**

Answer Options			
Option A	**Option B**	**Option C**	**Option D**
Find the mass of the substances.	Compare the weight of each substance with the weight of the same volume of water.	Find which of the substances float and which of them sink in water.	Classify the substances according to their shapes.

13.	3_15 Science 3550	Water: A Precious Resource	Which of these absorbs the LEAST sunlight?		**D**

Answer Options			
Option A	Option B	Option C	Option D
forest	ocean	land	Snow

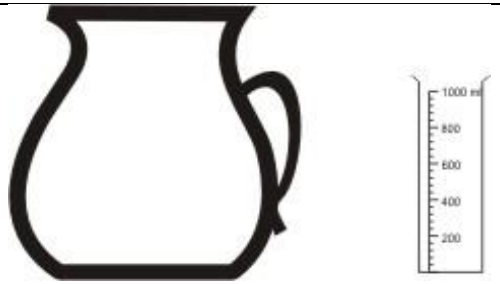
14.	4_25 Science 11965	Water: A Precious Resource	Distilled water is called 'pure' because		**B**

		Answer Options			
		Option A	Option B	Option C	Option D
		It contains dissolved salts.	It boils exactly at 100^0C and freezes exactly at 0^0C.	It contains dissolved oxygen.	It can be produced only in a laboratory.

15.	4_23 Science 9036	Water A precious Resource	What is the chemical formula for steam?		**B**
		Answer Options			
		Option A	Option B	Option C	Option D
		CO	H_2O	O_2	(Pure steam does not have a chemical formula.)

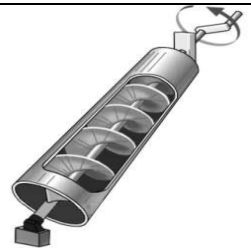
SET -20 **CLASS -VII** **SUBJECT – SCIENCE**

TOPIC- WATER: A PRECIOUS RESOURCE (CH.16), FOREST: OUR LIFELINE (CH.17)

Q.N.	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
1.	3_17 Science 1536	Water: A Precious Resource	Raj has to measure the volume of the jug shown using the measuring cylinder. The jug is heavy but delicate. What is the FIRST STEP he should take?		B

Answer Options

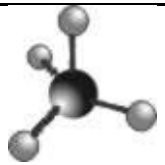
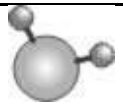
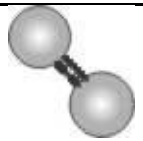
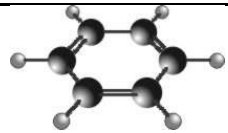
Option A	Option B	Option C	Option D
Fill only the measuring cylinder to the brim from the tap.	Fill only the measuring cylinder to its marked capacity from the tap.	Fill only the jug to the brim with water.	Fill the jug to the brim and the measuring cylinder to its marked capacity.

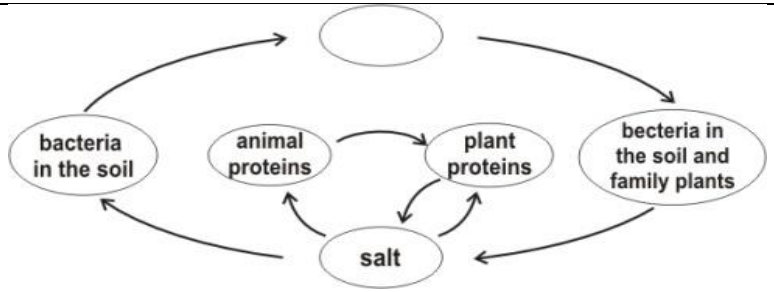
2.	4_24 Science 10298	Water: A Precious Resource	Carefully study the device shown alongside. It can probably be used for:		A

Answer Options			
Option A	Option B	Option C	Option D
drawing water from a lake	peeling the skin of a potato	drilling a hole in a wall	opening a sealed tin

3.	4_24 Science 10304	Water: A Precious Resource	Given below are the ball-and-stick models of a few molecules. Which one of them represents a water molecule?		B

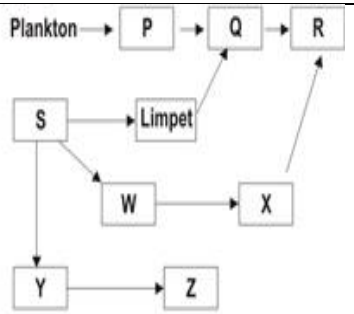
Answer Options			
Option A	Option B	Option C	Option D

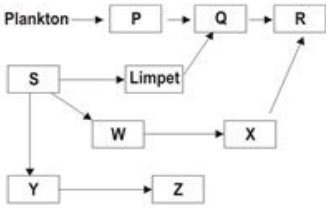
						

4.	3_15 Science 3566	**Forests: Our Lifeline**	Identify the gas to fill in the blank in the block diagram given here		A

Answer Options			
Option A	Option B	Option C	Option D
Nitrogen	**Oxygen**	**Carbon dioxide**	**Water vapor**

5.	3_15 Science 3562	**Forests: Our Lifeline**	Which organism corresponds to the alphabet 'Q'?	Study the table and food chain given below and answer the question. Plankton are small plants that float in the sea. Seaweed are plants that grow in the sea or sea bed.	B

				<table><tr><th>Organism</th><th>Eating habits</th></tr><tr><td>Mussel</td><td>Plankton</td></tr><tr><td>Limpet</td><td>Seaweed</td></tr><tr><td>Seal</td><td>Lobsters, and edible crab</td></tr><tr><td>Lobster</td><td>Mussels and limpets</td></tr><tr><td>Periwinkle</td><td>Seaweed</td></tr><tr><td>Mullet</td><td>Seaweed</td></tr><tr><td>Pollack</td><td>Mullet</td></tr><tr><td>Edible crab</td><td>Periwinkles</td></tr><tr><td>Oyster catcher</td><td>Mussels</td></tr></table> 	
		Answer Options			
		Option A	Option B	Option C	Option D
		Mussel	Lobster	Seal	Mullet

6.	3_15 Science 3563	**Forests: Our Lifeline**	If the organism represented by 'Z' decreases, what will be the immediate consequence?	Study the table and food chain given below and answer the question. Plankton are small plants that float in the sea. Seaweed are plants that grow in the sea or sea bed. <table><tr><th>Organism</th><th>Eating habits</th></tr><tr><td>Mussel</td><td>Plankton</td></tr><tr><td>Limpet</td><td>Seaweed</td></tr><tr><td>Seal</td><td>Lobsters, and edible crab</td></tr><tr><td>Lobster</td><td>Mussels and limpets</td></tr><tr><td>Periwinkle</td><td>Seaweed</td></tr><tr><td>Mullet</td><td>Seaweed</td></tr><tr><td>Pollack</td><td>Mullet</td></tr><tr><td>Edible crab</td><td>Periwinkles</td></tr><tr><td>Oyster catcher</td><td>Mussels</td></tr></table> 	B

		Answer Options				
		Option A	Option B	Option C	Option D	
		Periwinkles will increase.	Mullets will increase.	Seals will increase.	Limpets will increase.	

7.	3_17 Science 1499	Forests: Our Lifeline	Which of these is UNLIKELY to result in a reduction in wildlife in a region?		D

Answer Options			
Option A	Option B	Option C	Option D
pollution in the region	deforestation in the region	a new factory in the forest	heavy monsoon rains

8.	3_17 Science 1501	**Forests: our Lifelines**	Zaheeda put the following items into a big polythene bag. She took each of them out after two weeks. She made a table and put them under heads as Decomposed and Not decomposed'. Which item(s) have been put under incorrect headings?		C

Decomposed	Not decomposed
Grass	Key chain
Bread	Plastic spoon
Orange peel	Cucumber
Tin can	Stainless steel vessel

			Answer Options			
			Option A	Option B	Option C	Option D
			Stainless steel vessel only	Grass only	Both tin can and cucumber	Both key chain and bread

9.	3_17 Science 1506	Forests: our Lifelines	If a mineral is defined as follows: Which of the following is a mineral?	1. Found in nature 2. Made up of substances that were never alive 3. Same chemical composition wherever found	D

Answer Options				
Option A	Option B	Option C	Option D	
Coal	kerosene	Glass	Diamond	

10.	3_16 Science 2411	Forest: Our lifeline	Organisms are classified into kingdoms, phyla, classes, orders, families, genera and species. Which among them would be common to	Group P: giraffes, elephants, horses Group Q: lions, cheetahs and leopards	B

			animals from groups P and Q shown here?		

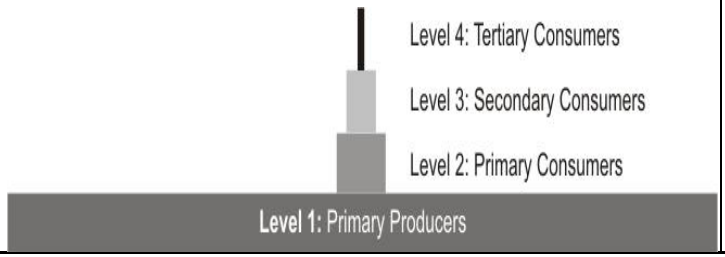
Answer Options			
Option A	Option B	Option C	Option D
kingdom, phylum	kingdom, phylum, class	kingdom, phylum, class, order	kingdom, phylum, class, order, family

11.	3_16 Science 2414	**Forest: Our lifeline**	Which highly toxic pollutant is emitted due to the incomplete combustion of petrol in a car?		**D**

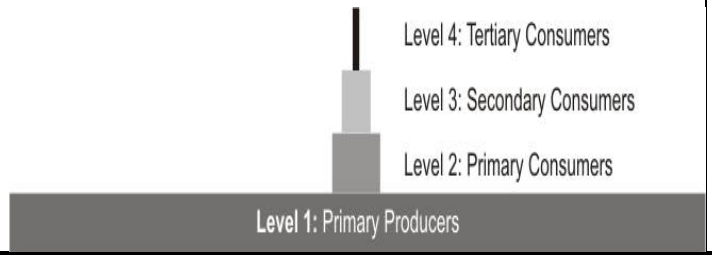
Answer Options			
Option A	Option B	Option C	Option D
Carbon dioxide	Sulphur dioxide	Ozone	Carbon monoxide

12.	3_16 Science 2415	**Forest : Our lifeline**	In a rain forest, the thick forest canopy restricts the amount of sunlight reaching plants at the lower levels. Which of these characteristics might help a plant at the lower level survive in a rainforest?		B

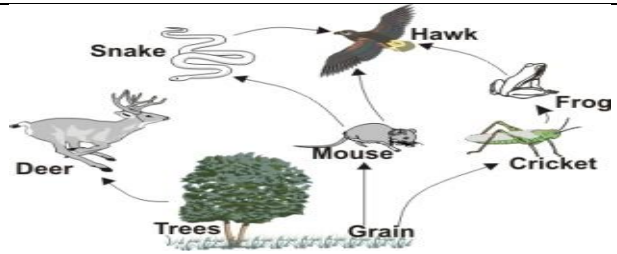
		Answer Options				
		Option A	Option B	Option C	Option D	
		Bright flowers	Large leaves	Short stems	Long roots	

13.	3_16 Science 2417	**Forests: Our lifeline**	Why is the size of each level of the pyramid much bigger than the level above it?	Study the pyramid shown below and answer the question. It shows the feeding relationships within a food chain  	**B**

Answer Options			
Option A	Option B	Option C	Option D
The energy required by an individual organism is higher at the lower levels.	The number of organisms at a given level is more at the lower levels.	The average size of an organism is higher at the lower levels.	This is just an artistic representation - there is no specific reason for it

14.	3_16 Science 2418	**Forests: Our lifeline**	At which level in this pyramid would one find organisms capable of preparing their own food?	Study the pyramid shown below and answer the question. It shows the feeding relationships within a food chain  	**A**

Answer Options			
Option A	Option B	Option C	Option D
Level 1	Level 2	Level 3	Level 4

15.	3_16 Science 2429	**Forests: Our lifeline**	If the number of crickets in this food web was to reduce drastically, the most likely result will be_____.	 	**A**

Answer Options			
Option A	Option B	Option C	Option D
more competition between frogs	an increase in the number of frogs	a decrease in available grain	a decrease in the number of mice

SET -21 **CLASS -VII** **SUBJECT – SCIENCE**

TOPIC- FOREST: OUR LIFELINE (CH.17)

Q.N.	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
1.	3_16 Science 2425	**Forest: Our lifeline**	Ahmed's grandfather plants trees all along the edge of their farm in the hills along the boundary fence. What is likely to be the best reason for this?		**C**

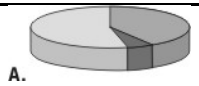
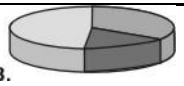
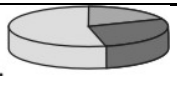
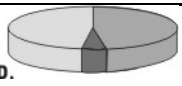
Answer Options			
Option A	Option B	Option C	Option D
To reduce the rainfall.	To keep away goats.	To conserve the soil.	To demarcate the boundary.

2.	**4_25 Science** **11949**	**Forest: Our Lifeline**	Zaheeda put some items into a big polythene bag. After two months, she took each of them out and made a table to put them under heads as & lsquo; Decomposed' and & lsquo; Not decomposed' as shown. Which item(s) have been put under incorrect headings?	<table><tr><th>Decomposed</th><th>Not decomposed</th></tr><tr><td>Grass</td><td>Key chain</td></tr><tr><td>Bread</td><td>Plastic spoon</td></tr><tr><td>Orange peel</td><td>Cucumber</td></tr><tr><td>Tin can</td><td>Stainless steel vessel</td></tr></table>	**C**

Answer Options			
Option A	**Option B**	**Option C**	**Option D**
only the stainless steel vessel	only grass	the tin can and the cucumber	the key chain and the bread

3.	**4_25 Science** **11943**	**Forest : Our Lifeline**	The table below classifies threatened species into vertebrates, invertebrates and plants. Which pie chart represents this data most accurately?	<table><tr><th>Taxonomic group</th><th>Number of threatened species</th></tr><tr><td>Mammals</td><td>86</td></tr><tr><td>Birds</td><td>70</td></tr><tr><td>Reptiles</td><td>25</td></tr><tr><td>Amphibians</td><td>3</td></tr><tr><td>Fish</td><td>3</td></tr><tr><td>Molluscs</td><td>2</td></tr><tr><td>Other invertebrates</td><td>21</td></tr><tr><td>Plants</td><td>244</td></tr><tr><td>Total</td><td>454</td></tr></table>	A

Answer Options			
Option A	**Option B**	**Option C**	**Option D**

		 A.	 B.	 C.	 D.	

4.	2_10 Science 4148	FOREST OUR LIFELINE	Study this food chain. What is likely to be an immediate effect if the cat population INCREASES a lot?		**B**

Answer Options

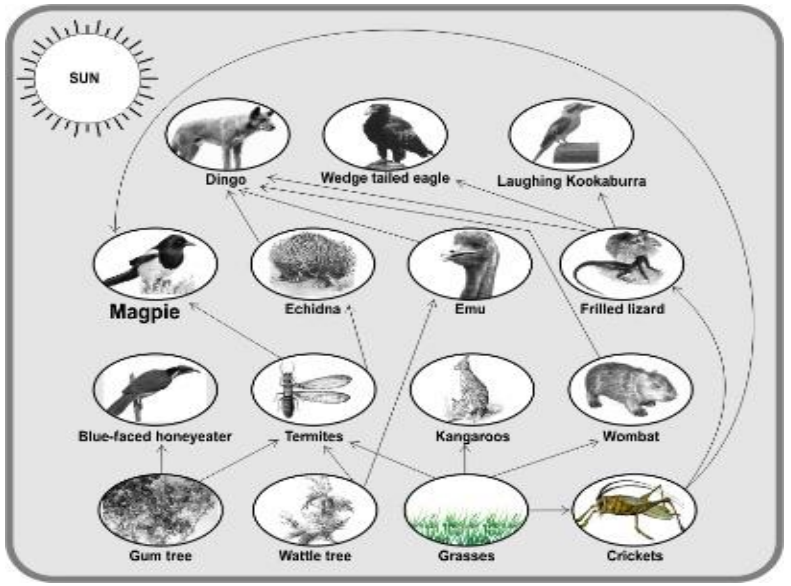
Option A	**Option B**	**Option C**	**Option D**
The food chain will not be affected.	The bird population will decrease.	The snake population will decrease.	The caterpillar population will decrease.

5.	1_3 Science 7340	FOREST OUR LIFELINE	Choose the best pair of words to fill in the blanks: The average temperature has -------due to ---------- levels of carbon dioxide and methane in the atmosphere.		**C**

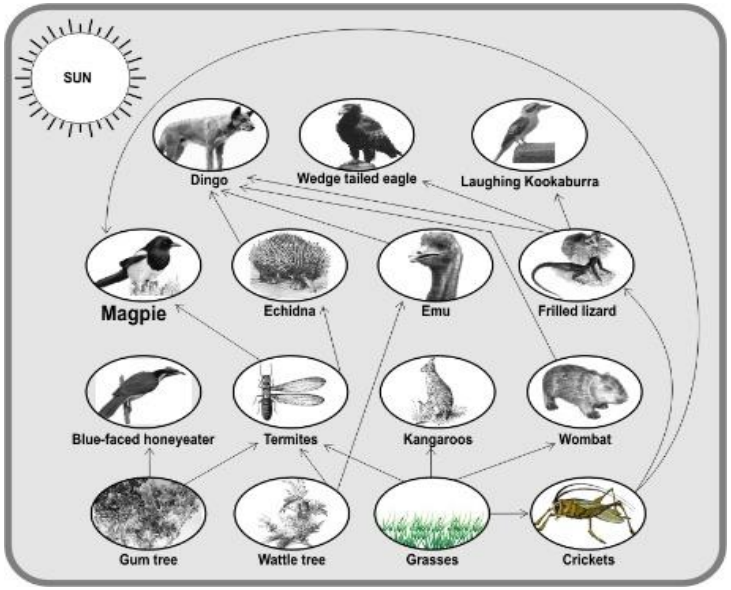
		Answer Options			
		Option A	**Option B**	**Option C**	**Option D**
		increased, decreasing	decreased, increasing	increased, increasing	decreased, decreasing

6.	4_23 Science 9043	**Forest Our lifeline**	If an organism eats seeds, fruits and insects", in which list would you put it?"	The question is based on the food web shown below Top level carnivores: Organisms that only eat other animals and are rarely killed by other carnivores Carnivores/ Omnivores: Organisms that eat both plants and animals Herbivores : Organisms that mainly feed on plant material Producers: Organisms that use the sun's energy to make food through photosynthesis Predators - Animals that eats other animals for food.	**B**

Prey - Animals hunted or caught for food.

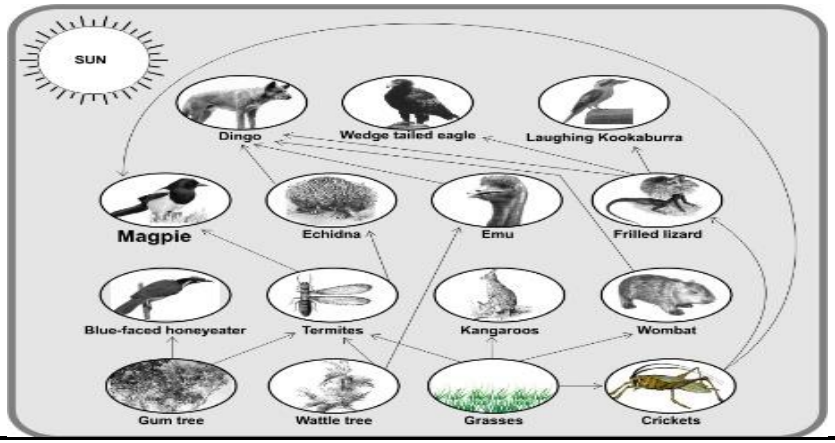


Answer Options			
Option A	Option B	Option C	Option D
Top level carnivore	Omnivore	Herbivore	Producer

7.	4_23 Science 9044	**Forest Our lifeline**	Which of the following food chains would be from the food web given above?	The question is based on the food web shown below Top level carnivores: Organisms that only eat other animals and are rarely killed by other carnivores Carnivores/ Omnivores: Organisms that eat both plants and animals Herbivores : Organisms that mainly feed on plant material Producers: Organisms that use the sun's energy to make food through photosynthesis Predators - Animals that eats other animals for food. Prey - Animals hunted or caught for food.  	C

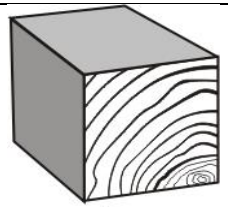
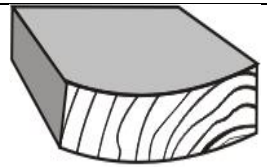
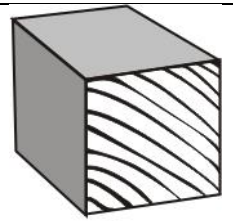
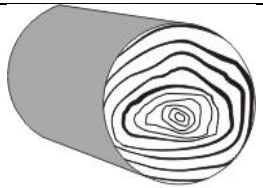
		Answer Options				
		Option A	Option B	Option C	Option D	
		grasses ---> magpie ---> wedge-tailed eagle ---> laughing kookaburra	gum tree ---> blue- faced honey eater ---> crickets ---> kangaroo	wattle tree ---> termites ---> echidna ---> dingo	grasses ---> wombat ---> emu ---> wedge- tailed eagle	

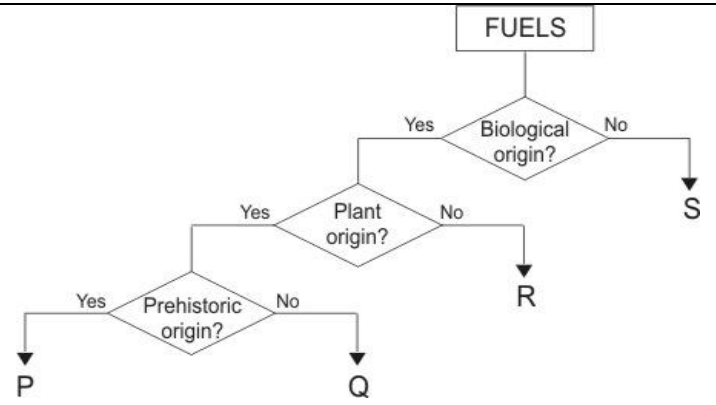
8.	4_23 Science 9042	Forest Our Lifeline	In the food web given, which of the following would list all the predators of the frilled lizard?	The question is based on the food web shown below Top level carnivores: Organisms that only eat other animals and are rarely killed by other carnivores Carnivores/ Omnivores: Organisms that eat both plants and animals Herbivores : Organisms that mainly feed on plant material Producers: Organisms that use the sun's energy to make food through photosynthesis Predators - Animals that eats other animals for food.	**A**

				Prey - Animals hunted or caught for food.  	

Answer Options			
Option A	Option B	Option C	Option D
Dingo, wedge-tailed eagle, laughing kookaburra	Crickets	Dingo, wombat, echidna	Crickets, laughing kookaburra, wombat

9.	3_16 Science 2430	**Forests: Our Lifeline**	The wooden blocks shown here were cut from the same tree trunk. Which of them was cut from the outermost part of the trunk?		**C**

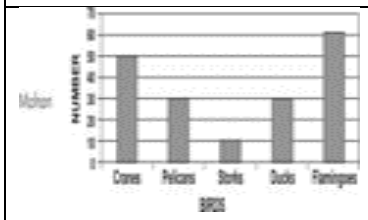
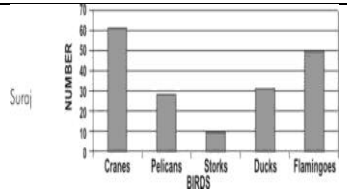
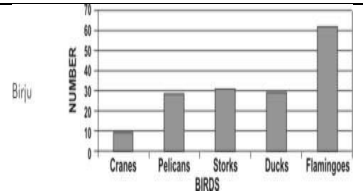
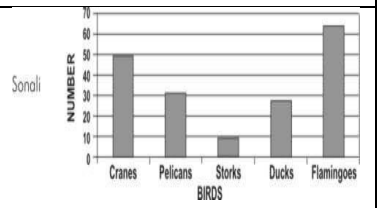
		Answer Options				
		Option A	Option B	Option C	Option D	
		 A.	 B.	 C.	 D.	

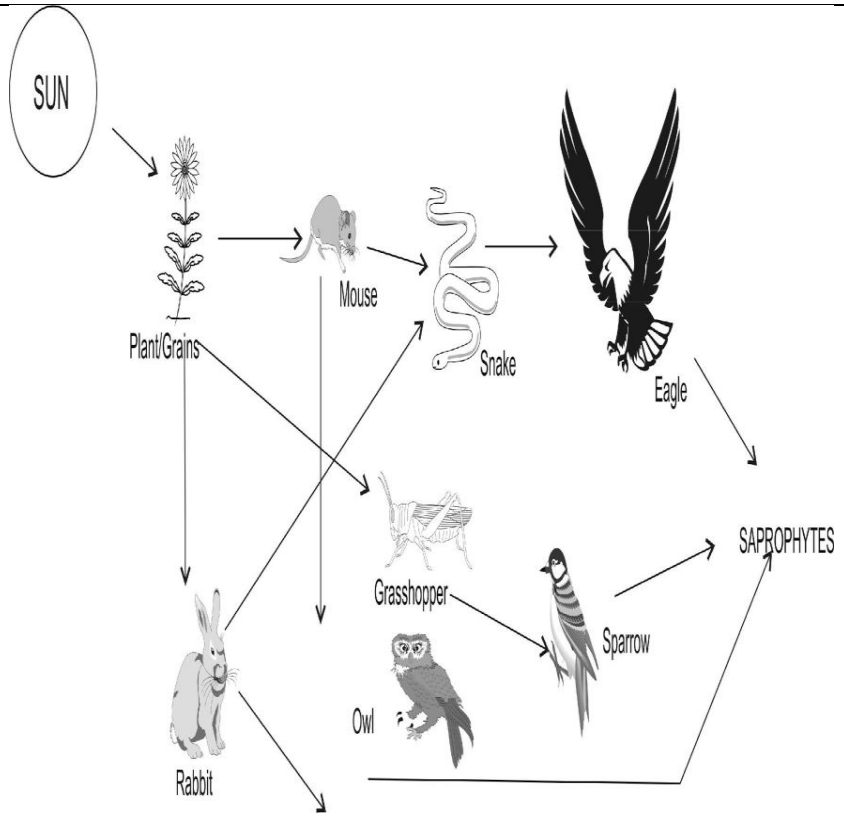
10.	3_16 Science 2435	**Forests: Our Lifeline**	Study this flowchart. Which of these could alphabet P be ?		**C**

Answer Options			
Option A	Option B	Option C	Option D
Wood	wind energy	coal	Petrol

11.	4_24 Science 10267	**Forests: Our Lifeline**	Four students of a school, Mohan, Suraj, Birju and Sonali visited a bird sanctuary to observe migratory birds. They counted the number of sightings of different birds and recorded the data as shown in the table below. Each of them tried to represent the data collected in graphical form as shown below. Who has represented the data correctly?	<table><tr><th>Type of Bird</th><th>Number</th></tr><tr><td>Cranes</td><td>49</td></tr><tr><td>Pelicans</td><td>31</td></tr><tr><td>Storks</td><td>9</td></tr><tr><td>Ducks</td><td>28</td></tr><tr><td>Flamingoes</td><td>63</td></tr></table>	D

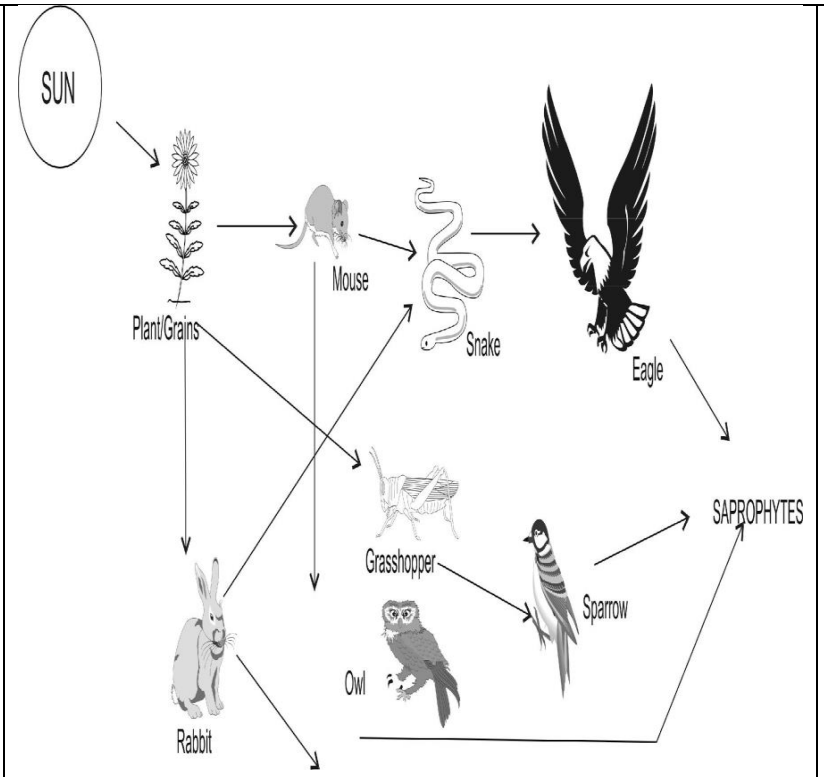
Answer Options

Option A	Option B	Option C	Option D
			

12.	1_3 Science 6650	FOREST OUR LIFELINE	This food web shows the interdependence of various plants and animals living on a farm. Use it to answer the given question- What is the assumption you can make about plants from the above picture?		**D**

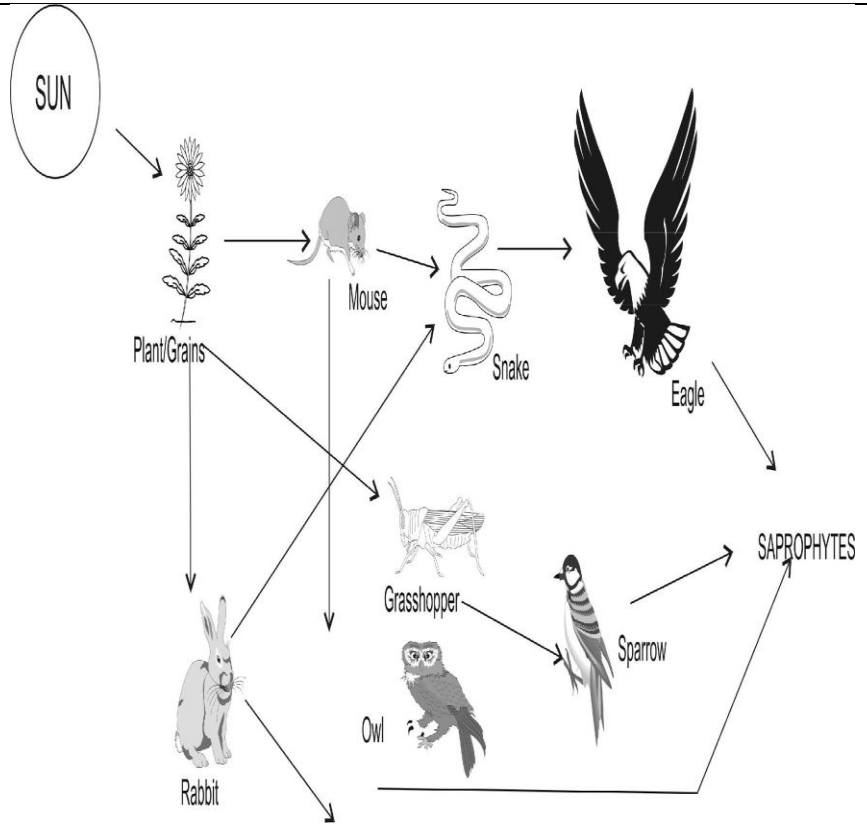
Answer Options

Option A	Option B	Option C	Option D
Plants depend on other species for their energy.	Plants grow the best among the various species.	Plants provide food for snakes directly.	Plants are the only species that make their own food.

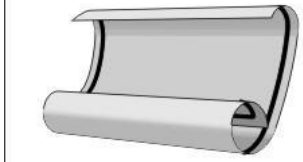
13.	**1_3** **Science** **6651**	**FOREST OUR LIFELINE**	This food web shows the interdependence of various plants and animals living on a farm. Use it to answer the given question – In the above food web, the species which compete for rabbits are-		**D**

Answer Options

Option A	Option B	Option C	Option D
snakes and eagles	mice and owls	snakes and mice	Snakes and owls.

14.	**1_3** **Science** **6652**	**FOREST OUR LIFELINE**	This food web shows the interdependence of various plants and animals living on a farm. Use it to answer the following question- Due to fear of certain diseases caused by mice, the people in the farm start killing mice in large numbers. What is likely to be the effect of this on the population of rabbits, and why?		**D**

		Answer Options			
		Option A	**Option B**	**Option C**	**Option D**
		No effect because neither rabbits nor mice eat the other.	It will increase because there will be more plants/grain for the rabbits to eat.	It will increase because snakes will die as there will be less mice for them to eat.	It will decrease because snakes and owls will eat rabbits in the absence of mice.

15.	2_9 Science 6040	FOREST OUR LIFELINE	Which of these items of daily use does NOT come from living things?		**D**
		Answer Options			
		Option A	**Option B**	**Option C**	**Option D**
		 Paper	 Cotton Shirt	 Silk Ribbon	 Nylon Jacket

SET -22 **CLASS -VII** **SUBJECT – SCIENCE**

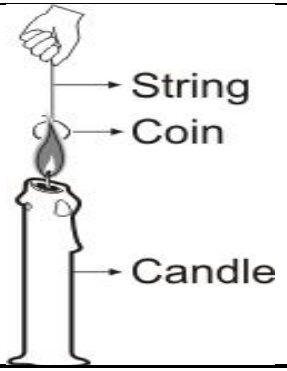
TOPIC- NUTRITION IN PLANTS (CH.1), HEAT (CH.4) , ACID, BASES AND SALTS (CH.5)

FOREST: OUR LIFELINE (CH.17) , WASTE WATER STORY (CH.18)

Q.N.	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
1.	**2_9 Science 6153**	**NUTRITION IN PLANTS**	CHLOROPHYLL in the leaf of the plant is responsible for utilization of sunlight in the process of photosynthesis. The part of the spectrum required for photosynthesis is ABSORBED by chlorophyll. Which colour(s) of the spectrum does chlorophyll use during photosynthesis?		**C**

Answer Options

Option A	Option B	Option C	Option D
All the colours	Only the green colour	Mainly the non-green colours	Only the infra-red part

<table>
<tr>
<td>2.</td>
<td>3_15
Science
3650</td>
<td>HEAT</td>
<td>Wrap a coin with a thread and hang it in a lighted candle as shown in the figure for a few minutes. What will happen?</td>
<td> 
</td>
<td>C</td>
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<td colspan="6">
<table>
<tr><td colspan="4">Answer Options</td></tr>
<tr><td>Option A</td><td>Option B</td><td>Option C</td><td>Option D</td></tr>
<tr><td>The thread will burn, but the coin will not become hot.</td><td>The thread will burn and the coin will become hot</td><td>The thread will not burn but the coin will become hot.</td><td>The thread will not burn and the coin will not become hot.</td></tr>
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3.	4_23 Science 9135	Acid base and Salt	Some hydrochloric acid has accidentally spilled on the laboratory counter. Which of the following chemicals should the lab in-charge immediately use to minimise the damage?		**C**

			Answer Options			
			Option A	**Option B**	**Option C**	**Option D**
			Acetic acid	Copper sulphate	Sodium bicarbonate	Manganese dioxide

4	3_17 Science 1852	Acid base and Salt	People who suffer from acidity are prescribed 'antacids' that often bring them relief. Which of these could be the pH value of an antacid?		D

	Answer Options			
	Option A	**Option B**	**Option C**	**Option D**
	1	4	7	10

5.	3-17 Science 1851	Acid base and Salt	Study the table given below - it shows the pH value of many common liquids. The pH value represents the acidity of a given liquid. Pure water is said to be neutral, that is, neither acidic nor basic Which of these is a valid conclusion that can be drawn from the table?		**A**

Substance	pH
Battery acid	<1.0
Stomach acid	2.0
Lemon juice	2.4
Cola	2.5
Orange/Apple juice	3.5
Coffee	5.0
Tea	5.5
Acid rain	<5.6
Milk	6.5
Pure water	7.0
Human Saliva	7.4
Blood	7.34-7.45
Sea water	8.0
Soap	9.0-10.0
Ammonia	11.5
Bleach	12.5

Answer Options

Option A	Option B	Option C	Option D
Many common food items are quite acidic in nature.	Our stomach contains a liquid which is a weak acid.	Sea water is neither acidic nor basic - it is neutral.	Acid rain, in spite of its name, is basic in nature.

6.	**2_9** **Science** **6048**	**FOREST OUR LIFELINE**	Which of these is a reason why a bird 'sings'?		**A**

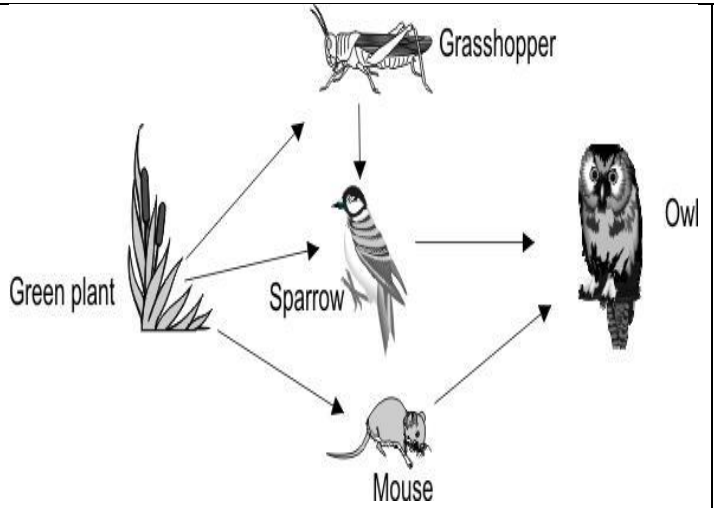
Answer Options

Option A	**Option B**	**Option C**	**Option D**
To mark out its territory to others of its own species	To frighten other birds that may attack / eat it	To attract its food like worms and insects	To wake up other birds and animals

7.	**2_10** **Science** **4148**	**FOREST OUR LIFELINE**	Study this food chain. What is likely to be an immediate effect if the cat population INCREASES a lot?		**B**

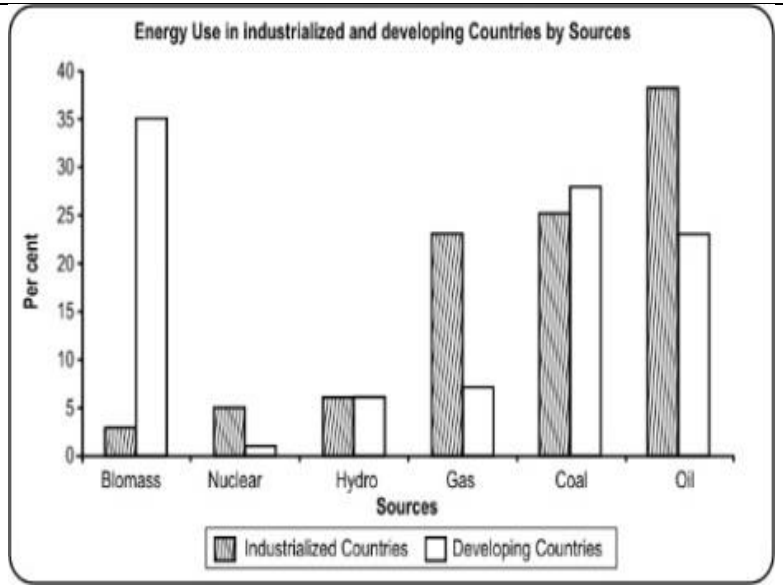
Answer Options

Option A	**Option B**	**Option C**	**Option D**
The food chain will not be affected.	The bird population will decrease.	The snake population will decrease.	The caterpillar population will decrease.

8.	2_9 Science 6055	FOREST OUR LIFELINE	Here is a food web IMAGE. Which of these correctly describes what the arrow stands for?		**C**

Answer Options			
Option A	Option B	Option C	Option D
Eats	Gets energy from	Provides energy to	Depends on

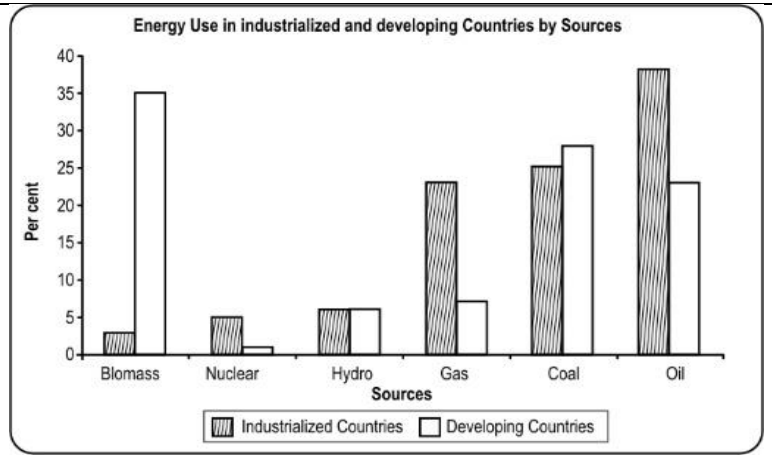
9.	4_23 Science 9073	FOREST OUR LIFELINE	Energy sources are sometimes classified as renewable and non-renewable. Considering nuclear energy, gas, coal	Study the graph given below and answer the question.	**A**

			and petroleum as non-renewable sources of energy, what percentage of energy in the INDUSTRIALIZED countries comes from renewable resources?		

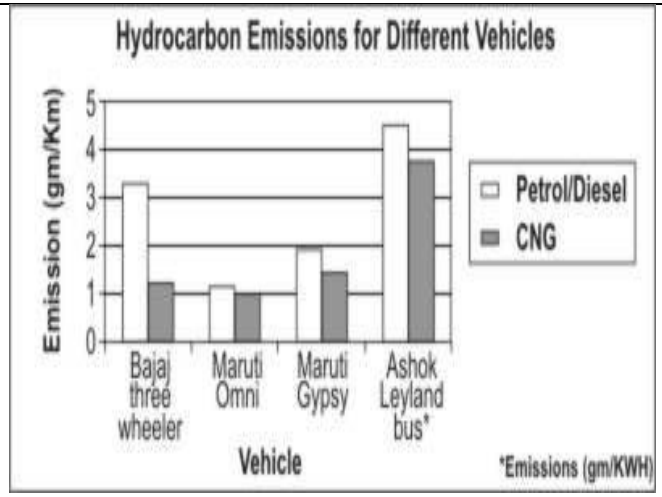
Answer Options			
Option A	Option B	Option C	Option D
< 10%	10 -20 %	20-25 %	> 85%

10.	4_23 Science 9074	FOREST OUR LIFELINE	From the graph shown, what can we conclude about how the energy usage of a country may change as it moves from	Study the graph given below and answer the question.	**C**

a developing to industrialized nation?



Answer Options			
Option A	Option B	Option C	Option D
Its dependence on fossil fuels will reduce and biomass energy will increase	Usage of hydro energy as well as coal is likely to increase.	Usage of biomass energy is likely to reduce in favour of fossil fuels.	Usage of nuclear energy as a percentage of the total is likely to reduce.

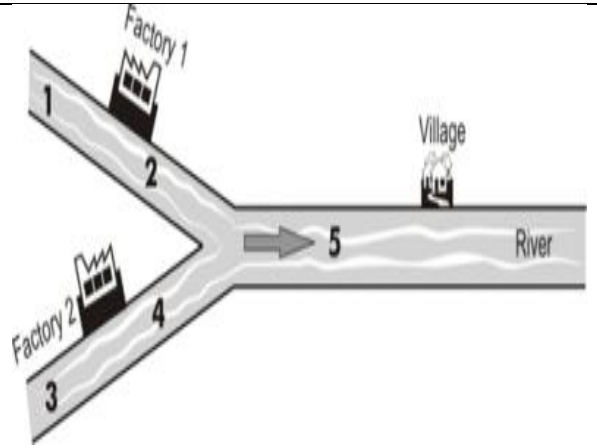
11.	4_24 Science 10302	**Forests:** **Our lifeline**	Hydrocarbon emissions from vehicles are due to partial burning of fuel and contribute to the air pollution. To reduce the amount of hydrocarbon emissions (and other pollutants), the use of CNG (Compressed Natural Gas) as an alternative to petrol and diesel is being tried in some Indian cities. The hydrocarbon emissions for different vehicles using petrol/diesel and CNG as fuel are shown in the graph below.For which of these vehicles is the percentage reduction in the amount of hydrocarbon emission the most?		A

Answer Options

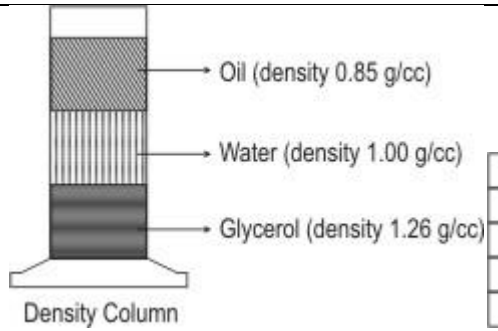
Option A	Option B	Option C	Option D
Bajaj three wheeler	Maruti Omni	Maruti Gypsy	Ashok Leyland bus

12.	4_25 Science 11973	Waste Water Story	Neeta, Usha and Ganesh make lists as follows: Neeta lists insects that have 4 stages in their life cycle. Usha lists insects that spread diseases. Ganesh lists animals that spread diseases through contaminated food and water. Which of the following animals would be in all their lists?		C

Answer Options			
Option A	Option B	Option C	Option D
rats	mosquito	housefly	no animal can be in all the lists

13.	3_16 Science 2433	Waste water Story	See the map below showing the position of two factories and a village. People in the village suspect that one or both of the factories are polluting the river from which they use the water for their daily needs. However the factories claim that the river is polluted upstream and they are not responsible for the pollution. (Note the direction of the rivers flow). Which is the minimum number of points at which samples of water should be taken to identify whether and which factory is polluting?		B

Answer Options			
Option A	Option B	Option C	Option D
All five points 1, 2, 3, 4 and 5	Four points 1, 2, 3 and 4	Four points 1, 2, 4 and 5	Three points 2, 4 and 5

14.	4_25 Science 11917	Waste Water story	Using the density column and the data table, predict which of these will FLOAT on oil? _	 **Liquid** / **Density (g/cc)** **A** 1.05 **B** 0.78 **C** 0.92 **D** 1.17	**B**

Answer Options

Option A	Option B	Option C	Option D
Sample A	Sample B	Sample C	Sample D