Subject: Science

Grade: 9th

Q.N	Folder name & Questio n Code	Topic	Question with Answer Option	Image (If Any)	Correct Answer (Option-A,B,C,D)
1	3_16 Science 2524	Matter In Our Surroundings.	People sometimes add salt to the water in which eggs are to be boiled. What is the MAIN reason for this?		В
			Answer Options		
		Option A Adding salt to the water before the egg is cooked makes the egg tastier.	Option B Adding salt to the water increases its boiling point and cooks the egg better.	Option C Adding salt to the water reduces the water temperature cooking the egg faster.	Option D Adding salt to the water kills micro organisms making the egg safer to eat.

2	3_15 Science 3638	Matter In Our Surroundings	Rama suspects that the LPG cylinder is leaking, and immediately turns the cylinder valve to the OFF position. What should she do next?		C		
			Answer Options				
		Option A Switch on all lights.	Option B Switch off all lights.	Option C Open all the windows.	Option D Close all the windows.		
3	3_16 Science 2523	Matter in our surroundings	A lump of bread dough in a baking tin contains air and carbon dioxide released by the yeast cells. When heated the dough rises to about twice its size. In this case, the increase in temperature has resulted in	Before Baking After Baking	A		
	Answer Options						

		Option A an increase in	Option B an increase of pressure while the volume	Option C an increase in both volume	Option D a decrease in both			
		volume while the	remained constant.	and pressure.	volume and			
		pressure remained			pressure.			
		constant.						
4	2_9	Matter in our	When a substance changes from LIQUID to		D			
	Science	surroundings	GASEOUS state, it is said to EVAPORATE.					
			Some substances change from SOLID to					
	6130		GASEOUS state without passing through					
			the LIQUID state. They are then said to					
	Answer Options							
		Option A	Option B	Option C	Option D			
		evaporate.	condense.	diffuse.	sublime.			
5	2_9	Matter in our	Both AIR CONDITIONERS and AIR COOLERS		В			
	Science	surroundings	can be used to cool rooms. What is the					
			main difference in the effect they					
	5087		produce?					
	1		Answer Options	1	1			

		Option A	Option B	Option C	Option D	
		They are basically	Air conditioners control the humidity of	They are basically the same,	They are basically the	
		the same, but air	the room also, unlike air coolers.	but air conditioners are	same, but air coolers	
		conditioners cool		meant for light use only.	can be used only for	
		much more.			a few hours at a	
					stretch.	
6	3_15	Matter In Our	Mercury can vaporize if heated. This		С	
	Science	Surroundings	means that with enough heat mercury			
	3643		can			
			Answer Options			
		Option A	Option B	Option C	Option D	
		be destroyed	become water vapour	be changed into a gas	change from a liquid	
					to a solid.	
7	3_15	Matter in our	A student wishes to test whether adding a		С	
	Science	surroundings	substance (called an anti-freeze) to water			
	3648		lowers the freezing point of the water.			
			Measuring which of these variables will			
			help her arrive at a conclusion?			
	•		Answer Options	•		
	·					

		Option A Amount of water put into the container	Option B Amount of anti-freeze added to the water	Option C Temperature at which the mixture freezes	Option D Type of thermometer used to make the measurement			
8	3_15 Science 3663	Matter In Our Surroundings	The density of water is 1 g/cc. Ice floats on water with 90% of its volume inside the water. What will be the mass of a cube of ice of side 3 cm?		C			
	Answer Options							
	1	I		1				
		Option A 27 g	Option B 30 g	Option C 24.3 g	Option D			
9	3_15 Science 3636	Matter in our surroundings	The figure shows the amount of water in a graduated test-tube. The curved surface shown is called the meniscus. What is the correct reading of the volume of liquid?	ml 8	D			
	Answer Options							

		Option A	Option B	Option C	Option D		
		7.1 mi	7.2 mi	6.8 mi	6.6 mi		
10	2_9 Science 6151	Matter in our surroundings	Many modern tanks for water and liquid fuels are made spherical in nature. What could be the reason behind this?		В		
			Answer Options				
		Option A It is easier to build spherical tanks compared to tanks of other shapes.	Option B For a given surface area, spherical tanks enclose maximum volume.	Option C It is easier to transport spherical tanks when repairs, etc. are required.	Option D Liquids get preserved better when they are stored in spherical tanks.		
11	2_9 Science 6148	Matter in our surroundings	Ramesh has to pour out boiling hot water into a glass. He has four glasses of the same size but of different THICKNESSES. Which of them is LEAST LIKELY to break, if hot water is poured into it?		A		
	Answer Options						



13	2_9 Science 6174	Matter in our surroundings	A box is made by cutting and folding a thick sheet having a pattern drawn on it as shown. How many faces of the cube will have a complete circle?		В
			Answer Options		
		Option A 0	Option B 1	Option C 2	Option D 3
14	2_9 Science 5055	Matter in our surroundings	Setup P below shows an egg being boiled. In setup Q, a similar arrangement is used, but inside an apparatus which creates near-vacuum conditions. Will the egg in setup Q get cooked faster?	P Q	C
		•	Answer Options		
		Option A Yes, lower pressure lowers the boiling point, so the water and egg will boil earlier than setup P.	Option B No, lower pressure raises the boiling point, so the water and egg will boil later than setup P.	Option C No, lower pressure lowers the boiling point; the water will boil away quickly but the egg will not boil	Option D Yes, lower pressure raises the boiling point, so the water will get hotter and the egg will boil faster

15	4_24 Science 10376	Matter in our surrounding	Which phase change at standard temperature and pressure represents sublimation?		A			
	Answer Options							
		Option A CO(s) - CO(g)	Option B H(I) - H(g)	Option C CO(I) - CO(g)	Option D H(s) - H(l)			

Subject: Science

Grade: 9th

Q.N	Folder name & Questio n Code	Topic	Question with Answer Option	Image (If Any)	Correct Answer (Option-A,B,C,D)
1	4_23 Science 9127	matter in our surrounding (change in state	In a closed container, 500 g of steam is cooled until all the steam becomes water. The container is then cooled further until all the water becomes ice. Which of the following remains the same during both of these changes?		A
			ANSWER OPTION		
		Option A	Option B	Option C	Option D
		the mass of the water	the pressure in the container	the temperature of the water	the volume of the water

2	2_9 Science 6134	Is Matter Around us Pure?	Matter may be classified as elements, compounds, or mixtures. Which of the following lists includes only mixtures?		В
			Answer Options		
		Option A dry ice, alcohol, brass	Option B sea water, milk, air	Option C copper, gasoline, bread	Option D paint, blood, mercury
3	2_9 Science 6150	Is Matter Around us Pure?	A maximum of 16.8 g of compound X can be dissolved in 100 ml of water. In an experiment, different masses of X were added to separate beakers containing varying volumes of water as shown.Arrange these solutions in the DESCENDING order of concentrations.		C
			Answer Options		
		Option A 4-1-2-3	Option B 4-2-1-3	Option C 1-4-3-2	Option D 1-3-2-4

4	3_16 2501	Is Matter Around us Pure?	The texture, colour and shine of four surfaces A, B, C and D are as shown below. Study the diagram given below and identify which surface will absorb the greatest amount of electromagnetic energy from the Sun?	Neveral Control of the Control of th			
			Answer Options				
		Option A	Option B	Option C	Option D		
		A	B	C	D		
5	4_25 Science 11740	Is matter around us pure?	Figure P below shows a beaker of water being heated directly. However, some liquids like alcohol are heated using a water bath (figure Q). Which of these is NOT likely to be a reason for water baths to be used?	Figure P Figure Q	C		
	Answer Options						

		Option A It is safer to use them with inflammable liquids.	Option B It allows more uniform heating of the liquid.	Option C It is a faster way of heating a liquid.	Option D It is convenient for liquids with low boiling points.			
6	3_15 Science 3644	IS MATTER AROUND US PURE	According to the graph, which of these is the least soluble in water at 20°C.?	180 CaCl, NaNO, 160 RbCl LICl 140 LICl LICl 150 KCl NH,Cl 60 KCl NH,Cl 40 20 40 60 80 100	В			
	Answer Options							
		Option A CaCl ₂	Option B KCl	Option C NaCl	Option D LiSO4			

r			T					
	4_23		Which option correctly matches the data				SALT SOL	Α
7	Science		in the table to the graph	S	alt name	potassium	potassiu	
'			in the table to the graph.	1	ormula	nitrate	sulphate	
	9162	ISIMATIER		Temp. deg		KNO ₃	K ₂ SO ₄	
		AROUND US PURE		0		13.9	7.4	
				10		21.2	9.3	
				20		31.6	11.1	
				30		45.3	13.0	
				40		01.4 83.5	14.0	
				60		106.0	18.2	
				70		100.0	10.2	
				80			21.4	
				90			22.9	
				10	0		24.1	
					110			
					100		Ψ/	
					90			
							у	
					80			
					° [℃] 70			
					8 60		4	
					?		/	
					a 50			
					teg 40			
					5 30 ×			
					30			
					20	\$^~		
					10			
					Ö	10 20 30	40 50 0	
							Temperatur	
					KNO ₃	K,SO,	NaCl	
				Α.	1	4	3	
				В.	3	1	2	
				С.	2	4	3	
				D .	1	3	4	
i	1	1	Answer Ontions	<u> </u>				
l								

		Option A	Option B	Option C	Option D		
		A	В	С	D		
8	3_17 Science	Is Matter Around	Which of these BEST distinguishes a Physical Change a Chemical Reaction and	Physical Change Cl	hemical C		
0	1838	03 Fulle	a Nuclear Reaction?	A. No new substance formed New	ew subs		
	B. (B. Change within molecule No	o change				
				C. No change within molecule Ch	hange w		
				D. Molecules are destroyed and created At	ioms are		
	Answer Options						
		Option A	Option B	Option C	Option D		
		A	В	С	D		
9	3_17 Science 1844	Is matter Around Us Pure	If a lighted splint is put into a small sample of a gas and a 'pop' sound is heard, the gas is identified as hydrogen. What is the 'pop' sound due to?		C		
	Answer Options						
		Option A formation of hydrogen molecule	Option B formation of oxygen molecule	Option C combustion of hydrogen	Option D combustion of oxygen		

10	3_17 Science 1846	Is Matter Around Us Pure	In cold countries, when snow covers and blocks roads and railway tracks, salt is often put on it. Using that fact, identify the correct graph of ice melting when salt has been put on it:		A
			Answer Options		
		Option A temperature	Option B temperature B. 0°C	Option C temperature C. 0°C time	D. O'C
11	3_17 Science 1858	Is matter Around Us Pure	Each in the periodic table can appear in gaseous form and will produce a series of spectral lines unique to that element. Thus, scientists can identify what elements are in from the lines they find in the star's spectrum. This type of study is called spectroscopy. Below are the spectral lines of four elements and also an unknown gaseous mixture. Identify the elements in the unknown mixture	Li	C

	Answer Options						
		Option A Lithium and sodium	Option B Lithium and hydrogen	Option C Helium and hydrogen	Option D Helium and sodium		
12	3_17 Science 1859	Is Matter Around Us Pure	400g each of water, oil and sand are taken and heated from room temperature to 70 deg C on identical Bunsen burners. The time taken for each to reach that temperature is noted. Heating is then stopped and the time taken for each to cool to room temperature is noted. Which		A		
		I	Answer Options				
		Option A Substances that take more time to get heated will take more time to cool.	Option B Substances that take more time to get heated will take less time to cool.	Option C There is no connection between the time taken to get heated and to cool.	Option D The time taken to get heated depends on the mass, the time taken to cool does not.		

13	4_23 Science 9133	Is Matter Around Us Pure (metal and non metal)	The list given here is known as the Electrochemical Series of metals. A metal lower in the list is more reactive, that is, it will form positive ions more easily, and will also displace a metal that is higher from a solution of the latter metal. Which of the following combinations of metal and salt solutions would result in a coating being formed?	Increasing reactivity of metals	Element Gold Silver Copper Lead Tin Nickel Cadmium Iron Chromiun Zinc Manganes Titanium Aluminiun Magnesiur	A Nickel (Ni) plate is place solution containing copper io CuSO2 A little while later a copper is formed on the nickel p Metal plate Silver Iron Tin Chromium	D
			Answer Options				
		Option A A	Option B B	с		Option C	Option D D

14	3_15 Science 3662	Is Matter Around Us Pure?	In a laboratory we often use a stirring rod while pouring liquids to	THE ST	C
			Answer Options		
		Ontion A		Ontion C	Ontion D
		A	Option B	C	D
			В		
15	2_9 Science 5077	MATTER IN OUR SURROUNDING	Two liquids P and Q, and two solids R and S are shown in different undisturbed arrangements below. Study the arrangements and arrange P, Q, R and S in order of INCREASING density.	Solid: S Liquid: P Solid: R Liquid: Q	В
			Answer Options		
		Option A P < Q < R < S	Option B Q < S < P < R	Option C Q < P < S < R	Option D S < Q < P < R

Subject: Science

Grade: 9th

Q.N	Folder name & Questio n Code	Торіс	Question with Answer Option	Image (If Any)	Correct Answer (Option-A,B,C,D)
1	2_9 Science 6170	IS MATTER AROUND US PURE	Minu found a mineral that was able to scratch a knife blade and it did not split into pieces. Identify the mineral found by her.	<section-header><section-header><section-header></section-header></section-header></section-header>	D
			Answer Options	·	
		Option A Wulfenite	Option B Chalcopyrite	Option C Malachite	Option D Pyrite

2	2_9 science 6172	IS MATTER AROUND US PURE	What can we say about the hardness of a material that scratches a knife blade?	Use both the tables and flow chart given on this page to answer the question The second seco	В
				Marrier Contact Marrier Contact Marrie	
			Answer Options		
		Option A	Option B	Option C	Option D
		It will be 4 or more.	It will be 6 or more.	It will be between 6 and 9.	It will be between 4
					and 6.
3	2_9	IS MATTER AROUND US PURE	Which of these minerals has a yellowish shade and cleaves regularly?	Use both the tables and flow chart given on this page to	D
	Science 6171			Answer the question The sector of the secto	

	Answer Options							
		Option A Pyrite	Option B Cinnabar	Option C Chalcopyrite	Option D Wulfenite			
4	4_23 Science 9168	MATTER	A small cube is fixed to the corner of a large cube as shown here.From which of the directions (indicated by the arrows above) would the view of the object be as shown below?		A			
			Answer Options	,				

		Option A	Option B	Option C	Option D
		Only 1	4 and 6	3 and 5	Only 2
5	4_24 Science 10395	MATTER	Till Fredrick Wohler synthesized urea in the laboratory, it was believed that only living organisms could produce organic molecules. According to people who believed this, which of these compounds could NOT be synthesized from chemicals in a laboratory?		A
			Answer Options		
	1	1	1		
		Option A Sugar	Option B Water	Option C Salt	Option D Hydrogen gas
6	2_9 Science	Atoms and molecules	A piece of zinc (Zn) - a reactive metal - was dropped into a test tube containing hydrochloric acid (HCl). The bubbling in the tube indicated that a gas was released.		A
	6147		The gas could be which of these?		
		I	Answer Options	I	
		Option A Hydrogen H ₂	Option B Oxygen O ₂	Option C Methane CH₄	Option D Carbon dioxide CO ₂
7	2_9 Science 6141	Atoms and Molecules	The first four compounds in a chemical series are CH_4 , C_2H_6 C_3H_8 C_4H_{10} , Identify the fifth.		В

	Answer Options						
		Option A C_5H_{10}	Option B C ₅ H ₁₂	Option C C ₆ H ₁₂	Option D C ₆ H ₁₄		
8	3_15 Science 3635	Atoms and Molecules	What happens to the individual molecules in a vegetable when we eat the vegetable?		D		
	1		Answer Options				
		Option A Individual molecules are always broken down into their constituent atoms during the digestion process.	Option B Individual molecules are always completely destroyed during the process of eating and digestion.	Option C Individual molecules are always unaffected and stay in their original form in our bodies.	Option D Individual molecules may stay unaffected or their atoms may recombine to form different molecules.		
9	3_16 Science 2496	Atoms and Molecules	Which of these is/are conserved during a chemical reaction?		C		
			Answer Options	·	·		
		Option A mass only	Option B charge only	Option C both mass and charge	Option D neither mass nor charge		

10	3_16 Science 2508	Atoms and Molecules	The carbon atom forms a part of all the major molecules found in living things. Which of the following does not contain carbon?		В			
			Answer Options					
		Option A DNA	Option B HCl	Option C Plastics	Option D Diesel			
11	3_17 Science 1825	STRUCTURE OF ATOM	Compared to a chlorine atom, Cl, a chlorine ion Cl ⁻ , will have		C			
			Answer Options					
		Option A one proton less	Option B one neutron more	Option C one electron more	Option D one neutron less and one proton less			
12	3_17 Science 1836	Atom and molecules	Do atoms have colour?		D			
	Answer Options							

		Option A	Option B	Option C	Option D			
		Yes. Atoms have	Yes. Atoms have different colour	No. All atoms are colourless	(The question is			
		different colours	depending on the state of substance.	(that is, they are	meaningless as			
		depending on their		transparent.)	colour has no			
		atomic			meaning at the			
		composition.			atomic level)			
		ATOMS AND	In 1911, the physicist Ernest Rutherford		В			
	4_23	MOLECULES	discovered that atoms have tiny, dense					
13	Science		nucleii by shooting positively charged					
	9160		particles at a very thin gold foil, Which					
			physical property of gold was used by					
			Rutherford in his gold leaf experiment?					
	Answer Options							
		Option A	Option B	Option C	Option D			
		non corrosive	highly malleable	highly ductile	non reactive			
			An ion with 13 protons, 14 neutrons, and a		В			
	4 23	ATOMS AND	charge of 3 ⁺ has an atomic number of					
14	Science	MOLECULES						
	9139							
Answer Options								
		Option A	Option B	Option C	Option D			
		10	13	14	27			
1								

15	3_17 Science 1831	STRUCTURE OF ATOM	Which element is found in both sodium chlorate and zinc nitrate?		C	
Answer Options						
		Option A nitrogen	Option B Hydrogen	Option C oxygen	Option D Chlorine	

Subject: Science

Grade: 9th

Q.N	Folder name & Questio n Code	Торіс	Question with Answer Option	Image (If Any)	Correct Answer (Option-A,B,C,D)		
1	2_9 Science 6145	STRUCTURE OF ATOM	Atoms consist of electrons, protons and neutrons. Isotopes of an element show similar chemical properties, but have different atomic weights. Thus they are likely to have:		D		
	Answer Options						
		Option A same number of	Option B same number of electrons and neutrons;	Option C same number of neutrons	Option D same number of		

2	3_15 Science 3654	electrons, protons and neutrons. STRUCTURE OF ATOM	different number of protons We know that like charges repel each other. Then how do the protons, which are all positively charged, stay together in an atom's nucleus?	and protons; different number of electrons	electrons and protons; different number of neutrons C
		L	Answer Options		
		Option A The neutral charge of the neutron keeps them together.	Option B Nuclei keep decaying in short intervals because of this.	Option C The nucleic force is stronger than their mutual repulsion.	Option D That like charges repel is not true at the level of the nucleus.
3	3_16 Science 2536	STRUCTURE OF ATOM	The number of protons and neutrons in the atom of an element are represented in the given form.Uranium-238 undergoes radioactive decay by losing an alpha particle to produce Thorium. This is expressed mathematically by the following equation.What is the number of protons and neutrons in an alpha particle?	Number of neutrons + protons – Number of protons – $^{238}_{92}U \longrightarrow ^{234}_{90}Th + Alph$	C
			Answer Options		
		Option A 2 protons and no neutrons	Option B 4 protons and no neutrons	Option C 2 protons and 2 neutrons	Option D No protons and 4 neutrons

4	3_16 Science 2537	STRUCTURE OF ATOM	The half-life of a radioactive material is the time in which half its atoms decay. Technetium-99 is a radioactive material with a half-life of 6 days. It is used to study blood flow around the body. A sample of technetium-99 has an activity of 96 counts per minute when injected into a patient's blood stream. Its activity after 18 days would be		D			
	Answer Options							
5	3_16 Science	Option A 48 counts per minute The fundamental unit of life	Option B 24 counts per minute Sunil views a slide of onion root cells in a compound microscope under low power	Option C 16 counts per minute	Option D 12 counts per minute A			
	2519		objective. He wants to increase the magnification to see the slide better. His teacher tells him to centre the portion of the slide he wants to see in the field of view, before he shifts to the high power objective. This is important because					
Answer Options								
		Option A Under high power a smaller area of the slide is	Option B Under high power a larger area of the slide is observed.	Option C Under high power the entire slide is magnified.	Option D Under high power focussing is not possible at all.			

		observed.						
6	3_16 Science 2520	The fundamental unit of life	The diameter of a field of view while using a 10X objective in a microscope is determined to be 2 millimetres (mm). From the picture of the cells as observed in the picture, the average length of each cell is about: (1mm = 1000 micrometres)			В		
	Answer Options							
		Option A 250 micrometres	Option B 1000 micrometres	Option C 2000 microme	tres	Option D 4000 micrometres		
7	3_17 Science	FUNDAMENTAL UNIT OF LIFE	The table below describes some of the organelles visible in a cell under a	Cell Organelle	Description	В		
	1833		microscope. Identify the type of organism	Cell Wall	Present			
			to which the cell belongs.	Vacuole	Large			
				Centriole	Not visible			
				Nucleus	Present			
	Answer Options							
		Option A	Option B	Opti	on C	Option D		
		It is the cell of an animal.	It is the cell of a plant.	It is the cell o	f a bacterium.	It is the cell of a virus.		

8	4_24 Science 10390	FUNDAMENTAL UNIT OF LIFE	Outer surfaces of some cells are folded into finger-like projections as shown in the figure here.Which of the following could be the function of such folded surfaces	Finger-like projections with folded surfaces	C		
	Answer Options						
		Option A to increase the energy production in the cell	Option B to increase the rate of cell division of the cell	Option C to increase the absorption of nutrients by the cell	Option D to help the cell move about much more effectively		
9	3_17 Science 1847	TISSUES	Among the following, which has the highest BRAIN TO BODY LENGTH ratio?		В		
	Answer Options						

		Option A Human	Option B Monkey	Option C Cat	Option D Squirrel		
10	4_24 Science 10360	TISSUES	In a leaf, chloroplast-containing cells are known to be the sites of photosynthesis. In which part of the leaf are the majority of chloroplast-bearing cells likely to be found?	upper surface	A		
	Answer Options						
		Option A upper surface of the leaf	Option B lower surface of the leaf	Option C equally throughout the leaf	Option D edges of the leaf		
11	4_25 Science 11801	TISSUES	The figure below shows a potometer with its parts marked. Its functioning is described below: shoot is held in place in the tube using a rubber stopper with a hole. A bubble is introduced into the capillary. The position of the bubble is set at the start of the experiment by turning the tap on the reservoir. The distance the bubble travels in a given time is noted. What does the potometer probably measure?		C		

	Answer Options					
		Option A Oxygen intake by a plant.	Option B Carbon dioxide intake by a plant.	Option C Water intake by a plant.	Option D Effect of water salinity on a plant.	
12	4_23 Science 9131	TISSUES	Cell theory states that all organisms are made up of one or more similar units of organization called cells. Which of the following organisms do not strictly adhere to this theory?		C	
			Answer Options			
		Option A protozoa	Option B bacteria	Option C viruses	Option D algae	
13	4_24 Science 10352	TISSUES	Which of the following protects the ANIMAL cell from the outside environment?		В	
	Answer Options					

		Option A	Option B	Option C	Option D
		Cell wall	Plasma membrane	Nuclear membrane	Cytoplasm
14		Diversity In Living	Animals which have three body parts,		С
	2_9	Organisms	each having one pair of legs are called:		
	Science				
	5071				
			Answer Options		
		Option A	Option B	Option C	Option D
		arachnids	amphibians	insects	beetles
15	2_9	Diversity In Living	One of the purposes of HAIR in mammals		D
	Science	Organisms	is to keep them warm. How do elephants		
	6132		and rhinos - which are not completely		
			covered by hair - keep themselves warm?		
			Answer Options		
		Option A	Option B	Option C	Option D
		They have a layer	They move around a lot which keeps them	They have hair underneath	They live in the
		of fat instead of	warm.	the skin which keeps them	tropics where the
		hair.		warm.	surrounding
					temperatures are not
					too low.
Subject: Science

Grade: 9th

Q.N	Folder name & Questio n Code	Topic	Question with Answer Option	Image (If Any)	Correct Answer (Option-A,B,C,D)
1	3_15 Science 3659	Diversity In Living Organisms	Which of the given species has a dark- coloured body with hair on it, and usually less than 5 offspring on an average?	Some characteristics of a few species are given below. Study the table and answer the question.	В
			Answer Options		
		Option A Mouse	Option B Porcupine	Option C Barn swallow	Option D Chicken

2	3_15	Diversity In Living	According to this chart, there appears to	Some characteri	stics o	of a few	C
	Science	Organisms	be a relationship between the average	species are giver	n belo	w.	
	3660		number of offspring per species and the	Study the table a	and an	iswer	
			of the species'.	the question.			
				Characteristia		Specie	
				Characteristic	Mouse	Porcupine	
				Average Number of Offspring	10	2	
				Average Adult Mass(kg)	0.08	3.00	
				Body Covering	Hair	Plates and hair	
				Average Number of Predatory Species	15	3	
				Body Colouring	Dark	Dark	
		I	Answer Options	, v			
		Option A	Option B	Option C			Option D
		average adult mass	body covering	average number	of pre	edators	body colouring
3	3_15	Diversity In Living	Some students counted the birds in an				С
	Science	Organisms	area. They counted the number of species				
	3656		present and the number of birds in each				
			species. Which of these would be best to				
			use to report the results?				





6	4_24 Science 10386	Motion	Which of these maps is better to use if we want to get a rough estimate of how far Alaska (a state in north-western USA) is, from Japan?	Alpska with a start of the star	В			
			Answer Options					
		Option A Map P is better.	Option B Map Q is better.	Option C Maps P and Q are equally good.	Option D Neither map P nor Q may be used.			
7	2_9 Science 6142	Motion *(General topic for logical reasoning)	Blocks arranged like these are used to train robots to perform everyday tasks, and test their recognition skills. In the arrangement alongside, if a robot is instructed to 'bring the cuboid having the same colour as the pyramid inside the open box', which block should it bring?	Pyramid red Cuboid	C			
	Answer Options							

		Option A	Option B	Option C	Option D
		A.	B. red	C. green	D. red
8	2_9 Science	Motion	See the representation of a park in the map below. Which of these scenes may be seen by a visitor entering the park from the entrance?		A
	5078	*(General topic for logical reasoning)			
	•		Answer Options	Lintance	
		Option A	Option B	Option C	Option D
					D
9	29	Motion	When a hall is thrown as shown in the		Δ
	Science 6137		figure, what is the path it is likely to take?		

	Answer Options						
10	3_15 Science 3661	Motion	When a car turns, its front wheels do not turn by the same amount. In order that the car turn around a common point, the wheel on the side to which the car is turning, turns more than the other. Which of these correctly shows the alignment of a car's wheels when it is turning to its right?		A		
			Answer Options				
		Option A	Option B	Option C	Option D		
11	3_15 Science 3664	Motion	A hunter sees a fish which is swimming in clear water as shown in the figure. To hit the fish, he should take aim adjusting for the fish's motion and	Representation of where the hunter sees the fish	В		
	1	1	Answer Options	1	1		

		Option A exactly at the depth the fish appears to him to be.	Option B a little below where the fish appears to him to be.	Option C a little above where the fish appears to him to be.	Option D at the fish's eye, exactly where it appears to be.
12	3_16 Science 2535	MOTION	The shortest airline route from Moscow in Russia to Montreal in Canada is likely to be which of these shown on the world map?	Montreel A do Moscow B C C C C C C C C C C C C C C C C C C	D
			Answer Options		
		Option A A	Option B B	Option C C	Option D D
13	3_16 Science 2539	MOTION	A truck is carrying a water tank which has two taps on either side as shown in the figure. The taps are opened as the truck starts moving in the circular path at a constant speed. As the truck just completes the circle, the water in the tank runs out completely. What will be the shape of the water trail on the ground if seen from the top?	Water Tank Truck Top view	В

	Answer Options					
		Option A Road Water-trails	Option B B	Option C	Option D	
14	2_9 Science 6133	MOTION	The unit of distance is metres. The unit of time is seconds. Hence the speed of a person who walks 100 metres in 50 seconds is 100m divided by 50 seconds which is 2 m/s or 2 metres per second. To find out the speed of gas moving through a large gas pipeline, an oil company measures that 10 kg of gas flows every 10 seconds. The mass flow rate is obtained by dividing the distance covered by the time taken to cover it. Then, the mass flow rate in the pipeline is expressed in the unit		В	
		l	Answer Options			
		Option A m/s	Option B kg/s	Option C Kg/m	Option D s/kg	
15	2_9 Science 5083	MOTION	The rate of growth of hair on the human head has been estimated as about 0.44 mm per day. Assuming that this rate is uniform, about what LENGTH of hair (considering just 1 strand) would a normal male adult cut in 20 years?		В	

Answer Options						
		·				
	Option A	Option B	Option C	Option D		
	About 30 cm.	About 3 m.	About 30 m.	About 300 m.		

Subject: Science

Grade: 9th

Q.N	Folder name & Questio n Code	Торіс	Question with Answer Option	Image (If Any)	Correct Answer (Option-A,B,C,D)			
1	2_9 Science 6158	MOTION	A ball is thrown vertically upwards, and then caught again after 10seconds.Which of these graphs shows how its SPEED changes during its motion?		c			
	Answer Options							
		Option A	Option B	Option C	Option D			

2	2_9 Science 6161	0 Time A MOTION	Time 10s 0 Time 10s B If the earth (which is revolving around the sun in the direction shown) is at P at 12:00:01 AM on January 1, 2000 a leap year, where will it be at 12:00:01 AM on January 1, 2001?	Deeder of the second se	B
	I	I	Answer Options		<u> </u>
		Option A Exactly at the same position P.	Option B A little ahead of the position P.	Option C A little behind the position P.	Option D At the position Q shown.
3	2_9 Science	MOTION	Water is flowing through a pipe having a circular cross-section. The diameter of the pipe reduces in section P as shown. How will the speed of the water change in section P?	Section P having reduced diameter Direction of water flow prose-section	A
	6166				

	Answer Options							
		Option A It will increase.	Option B It will reduce.	Option C It will stop altogether.	Option D It will not change.			
4	3_15 Science 3645	MOTION	A truck driver drove 200 kilometres in 6 hours as shown in the graph. At which of the following times was the truck moving the slowest?	300- 250- 200- 150- 100- 50- 0 1 2 3 4 5 6 Time hours	В			
			Answer Options					
		Option A About 1 hr after he started	Option B About 3 hrs after he started	Option C About 4.5 hrs after he started	Option D About 5.5 hrs after he started			
5	3_15 Science 3657	MOTION	In which of these cases ROTATIONAL MOTION is not there?		В			
	Answer Options							

		Option A operating a pulley	Option B hitting a shuttlecock	Option C riding a bicycle	Option D using a beam balance			
6	3_16 Science 2529	Force and laws of motion	Archer Fish are known to sight prey and then knock them off using a powerful jet of water. Where should the insect be for the Archer Fish to knock off the prey by using a powerful jet of water?	C· ·B .D	В			
	-	•	Answer Options					
		Option A A	Option B B	Option C C	Option D D			
7	3_15 Science 3670	Force and laws of motion	Tyre marks from a motorcycle and a bicycle are seen on a road. A square section of the road is made of concrete and does not display any marks. It is not possible for any vehicle to get off the road in the part shown .We can deduce WITH CERTAINTY:	Motorcycle tyre mark Cycle tyre mark	В			
	Answer Options							
		Option A that the motorcycle passed before the cycle.	Option B that the cycle passed before the motorcycle .	Option C the cycle's direction of passing.	Option D the motorcycle 's direction of passing.			

8	2_9 Science 5061	Work and Energy	When Ram was about to switch on the light in his room, his sister stopped him. She told him that he should first DRY his hands (which were wet), before touching the electric switch.(Was Ram's sister		C		
			correct?)Why / why not?				
			Answer Options				
		Option A Yes. The water can cause a short circuit (There is no increased danger to Ram)	Option B No. We should be careful in any case - dry or wet makes no difference.	Option C Yes. Wetness reduces body resistance and increases danger of shock.	Option D No. Water is a poor conductor of electricity, hence wet fingers are safer.		
9	2_9 Science 5062	Work and Energy	Resistors are semi-conductor devices which are important components of electronic circuits. Resistance is measured in OHMS, and each resistor has a rating in ohms. Because a resistor is small and may be fixed in any orientation, its resistance value is coded on it using coloured bands rather than writing its resistance value on it. A colour code is used to determine the value of a resistor as per this table. What is the resistance of the resistor shown here?		D		
	Answer Options						

		Option A	Option B	Option C	Option D
		1000 ohms	20 ohms	2000 ohms	20000 ohms
10	2_9 Science 5063	Work and Energy	Resistors are semi-conductor devices which are important components of electronic circuits. Resistance is measured in OHMS, and each resistor has a rating in ohms. Because a resistor is small and may be fixed in any orientation, its resistance value is coded on it using coloured bands rather than writing its resistance value on it. A colour code is used to determine the value of a resistor as per this table. Which three colour bands represent 600 ohms?	Ist and 2nd Digit Colour Band Represented Multiplier BLACK 0 X1 BROWN 1 X10 RED 2 X100 ORANGE 3 X1,000 or 1K YYLLOW 4 X10,000 or 10K BUE 6 X1,000,000 or 1M VIOLET 7 Bonn Black Bisk represents to x1 = 10 CRAY 8 WHITE 9	Α
		-		-	-
		Option A	Option B	Option C	Option D
		Blue, Black, Brown	Blue, Black, Brown	Brown, Blue, Black	Violet, Blue, Brown
11	3_16 Science 2516	Work and Energy	Which are the bulbs connected in series with each other and which are connected in parallel in the circuit shown here?	Bulb 1 Bulb 1 Bulb 2 Bulb 2 Bulb 3 Bulb 4 Bulb 4 Bulb 3 Bulb 4 Bulb 3 Bulb 4 Bulb 3 Bulb 4 Bulb 3 Bulb 3 Bulb 3 Bulb 3 Bulb 4 Bulb 3 Bulb 4 Bulb 3 Bulb 4 Bulb 3 Bulb 4 Bulb 3 Bulb 4 Bulb 3 Bulb 4 Bulb 4 Bulb 3 Bulb 4 Bulb 4 Bu	В

Answer Options						
Option A Option B Option C A B C	Option D D					
12 2_9 Work and Energy In the circuit given below, electricity will flow if there is a closed path from P to Q. Switches S2 and S3 will not allow electricity to flow if either is open. In 						
Answer Options						
Option A S1 and S4 are open; others are closed.Option B S2 and S4 are open; others are closed.Option C S1 and S2 are open; others are closed.	open; others Option D S₃and S₄ are open; others are closed.					
133_15 ScienceWork and Energy energy more cheaply and with less pollution than thermal power plants. Why are there not more nuclear power plants than thermal power plants?	D					
Answer Options						

		Option A	Option B	Option C	Option D			
		There is an endless	Nuclear fuels produce too little heat	A kilogram of fossil fuel	The issue of disposal			
		supply of fossil	during the nuclear fission reaction	produces more energy than a	of radioactive			
		fuels like coal		kilogram of nuclear fuel.	nuclear waste is not			
		available.			satisfactorily			
					resolved.			
14	3_16	WORK AND	In the diagram below, a 20 Newton force is		В			
		ENERGY	of 5 meters. The work done on the cart					
	Science		is					
	2502			2 Kg.				
	Answer Options							
		Option A	Option B	Option C	Option D			
		40 J	100 J	150 J	200 J			
15	2_9	WORK AND	Which of these provides the energy for the					
		ENERGY	motion of a petrol car?					
	Science				Α			
	5005							
	5085							
Answer Options								
		Option A	Option B	Option C	Option D			
		Petrol	Its battery	Its engine	Petrol and its battery			

Subject: Science

Grade: 9th

Q.N	Folder name & Questio n Code	Topic	Question with Answer Option	Image (If Any)	Correct Answer (Option-A,B,C,D)	
1	2_9 Science 6158	MOTION	A ball is thrown vertically upwards, and then caught again after 10seconds.Which of these graphs shows how its SPEED changes during its motion?		c	
Answer Options						
		Option A	Option B	Option C	Option D	

		beed beed 0 Time	1 0 Time 10s	0 Time 10s	0 Time 10s			
2	2_9	MOTION	The rate of growth of hair on the human head					
	Science		has been estimated as about 0.44 mm per day. Assuming that this rate is uniform, about what LENGTH of hair (considering just 1 strand) would a normal male adult cut in 20		В			
	5083		years?					
	Answer Options							
		Option A	Option B	Option C	Option D			
		About 30 cm.	About 3 m.	About 30 m.	About 300 m.			
3	3_16 Science 2539	MOTION	A truck is carrying a water tank which has two taps on either side as shown in the figure. The taps are opened as the truck starts moving in the circular path at a constant speed. As the truck just completes the circle, the water in the tank runs out completely. What will be the shape of the water trail on the ground if seen from the top?	Truck Truck Truck Top 1 Trop 2 Top 1 Trop 2 Top 1 Trop 2	В			
	Answer Options							

		Option A	Option B	Option C	Option D
		Road Water-trails			D
4	2_9	MOTION	The unit of distance is metres. The unit of time	v	В
			is seconds. Hence the speed of a person who walks 100 metres in 50 seconds is 100m		
	Science		divided by 50 seconds which is 2 m/s or 2		
	6133		metres per second. To find out the speed of		
			gas moving through a large gas pipeline, an oil		
			every 10 seconds. The mass flow rate is		
			obtained by dividing the distance covered by		
			the time taken to cover it. Then, the mass flow		
			rate in the pipeline is expressed in the unit		
			Answer Options		I
		Option A		Uption C	Option D
		1173	NS/ 5	Kg/ III	3/ Ng
5	3_16	Force and laws of	Archer Fish are known to sight prey and then	с.	
	Science	motion	Where should the insect be for the Archer Fish		
	Science		to knock off the prey by using a powerful jet	, D	
	2529		of water?		
				X	

	Answer Options							
		Option A A	Option B B	Option C C				
6	3_15 Science 3670	Force and laws of motion	Tyre marks from a motorcycle and a bicycle are seen on a road. A square section of the road is made of concrete and does not display any marks. It is not possible for any vehicle to get off the road in the part shown .We can deduce WITH CERTAINTY:	Motorcycle tyre mark Cycle tyre mark				
	I		Answer Options					
		Option A that the motorcycle passed before the cycle.	Option B that the cycle passed before the motorcycle .	Option C the cycle's direction of passing.				
7	1_3 Scienc e 7342	GRAVITATION Class -IX	A body has a mass of 2 kg. When will the mass of the body change?		D			

		Option A	Option B	Option C	Option D
		When the body is	When the body is dropped from a height.	When the body is being	The mass of the body
		taken to the moon.		pulled along a smooth	will not change
				surface.	unless it is cut or
					broken.
	1_3	GRAVITATION	When a solid cube made of wax (density		D
8	Scienc	Class -IX	0.9 g/cc) is placed in a beaker of alcohol	Alcohol	
	е		(density 0.8 g/cc), it sinks (see figure 1).	Figure 1	
	7360		The same cube when placed in water	Wax	
			(density 1g/cc), it floats (see figure 2).		
			What will happen if the cube of wax is		
			placed in vegetable oil (density 0.9 g/cc,	Wax	
			almost the same as the wax itself)?	Figure 2	
				Water	
		Option A	Option B	Option C	Option D
		It will sink to the	It will float (same as figure 2).	It is not possible that a solid	The solid will stay in
		bottom (same as		and liquid have the same	the liquid at any
		figure 1).		density.	point it is placed
					without sinking or
					floating.



11	1_3 Scienc e 6684	GRAVITATION Class -IX	The 'mobile' shown is completely balanced. The sticks and strings are weightless. If the mass of P is 30 grams, what is the mass of Q?	P	A
		Option A 20g	Option B 30g	Option C 40g	Option D 60g
12	2_9 Scienc e 6054	GRAVITATION Class -IX	A block of wood is cut as shown in the figure.What will happen to its mass, volume and density?	Part cut out	D
		1			
		Option A Mass and density will remain the same but volume will decrease.	Option B Mass and volume will remain the same but density will decrease.	Option C Mass remains the same but density and volume will decrease.	Option D Density will remain the same but mass and volume will decrease.
13	2_9 Scienc e 6056	GRAVITATION Class -IX	Generally the density of a solid is higher than its liquid form. This is NOT true for:		В

		Option A	Option B	Option C	Option D
		Wax	Water	Iron	Sodium
14	2_9 Scienc e 6072	GRAVITATION Class -IX	A beam is mounted on the fulcrum as shown. A 5 kg weight on pan P is balanced by placing a 2 kg weight on pan Q. Now a 2 kg weight is added to pan P. What must be added to Q to maintain the balance?	5 kg O Pan P	A
	1				
		Option A 0.8 kg	Option B 1.2kg	2 kg	Option D 5 kg
15	2_9 Scienc e 5004	GRAVITATION Class -IX	An apple is falling from a tree. At which of the points shown is its speed the highest?	A D. The speed is the same D. at all the positions C D	C
	1				
		Option A A	Option B B	Option C C	Option D D

Subject: Science

Grade: 9th

Q.N	Folder name & Questio n Code	Topic	Question with Answer Option	Image (If Any)	Correct Answer (Option-A,B,C,D)		
1	2_10 Scienc e 4156	GRAVITATION Class -IX	Ether (density 0.71 g/cc), water (density 1.00 g/cc) and mercury (density 13.6 g/cc) are 3 liquids which do not mix with each other. They are filled in a container as shown here.A piece of diamond (density 3.5 g/cc) is dropped into the liquid. Where will it come to rest?	Ethe 	C		
	Answer Options						
		Option A	Option B	Option C	Option D		
		In the ether layer.	In the water layer.	Between the water and the	In the mercury layer		

				mercury layers.	(it will sink to the bottom).
2	2_10 Scienc e 4157	GRAVITATION Class -IX	A paper and a stone are dropped from the top of a building. Which one will reach the ground first and why?		В
			Answer Options		
		Option A The stone, because it is heavier (air resistance plays no part.)	Option B The stone, only because it faces much less air resistance.	Option C The paper, because it is lighter (air resistance plays no part.)	Option D The paper, only because it faces much less air resistance.
3	2_9 Science 5061	Work and Energy	When Ram was about to switch on the light in his room, his sister stopped him. She told him that he should first DRY his hands (which were wet), before touching the electric switch.(Was Ram's sister correct?)Why / why not?		C
			Answer Options		
		Option A Yes. The water can cause a short circuit (There is no increased danger to Ram)	Option B No. We should be careful in any case - dry or wet makes no difference.	Option C Yes. Wetness reduces body resistance and increases danger of shock.	Option D No. Water is a poor conductor of electricity, hence wet fingers are safer.
4	3_16 Science	WORK ENERGY AND POWER	The architect of a multiplex is advising the owners to fit Compact Fluorescent Lamps (CFL) in place of regular lamps where they will		с

	2518		be kept on for over 18 hours every day. What could be the reason for this?		
	1		Answer Options	-	l
		Option A The wattage of CFL Lamps is higher and hence they give brighter light.	Option B CFL Lamps give white light which is not possible with other lamps.	Option C CFL Lamps use less energy and savings can be high with high usage.	Option D CFL Lamps are priced much lower than regular lamps.
5	1_3 SCIENC E 6669	WORK & ENERGY Class-IX	In the pictures below, which snail does the least amount of work? (The same scale is used in all the pictures.)	No image	
	<u> </u>	I	Answer Options	I	
		Option A	Option B B	Option C	Option D

6	1_3 SCIENC E 6642	WORK & ENERGY Class-IX	One form of energy can be converted into other forms. An aerial fire cracker was lit on the ground. It rose up to burst and produce beautiful patterns in the sky. Here chemical energy stored in the cracker is converted mainly into	No image	C	
	1	1	Answer Options			
			·			
		Option A	Option B	Option C	Option D	
		Sound energy only	Sound and light energy only	Sound, light and mechanical energy	Mechanical energy only	
7	2_9 SCIENC E 6041	WORK & ENERGY Class-IX	What energy conversion takes place when a TV is switched on for a long period of time?	No image	В	
			Answer Options			
		Option A Electrical energy to light and sound energy only.	Option B Electrical energy to light, heat and sound energy.	Option C Electrical energy to mechanical energy only.	Option D Electrical energy to light energy only.	

8	2_9 SCIENC E 5002	WORK & ENERGY Class-IX	Sonu and Monu are performing an activity on bouncing balls. They drop a normal tennis ball from different heights (DROP HEIGHT) and record how high the ball bounces (BOUNCE HEIGHT). This is what they have recorded. Study it carefully and answer question. If the ball is dropped from a height of 60 cm, it is likely to bounce back to a height of about:	Finding the Bounce Height - by Sonu and Monu - done o Ball type: Tennis Ball Drop height (cm) Bounce height (cm) 40 Trial 1. 21 40 Trial 2. 22 Trial 3. 22 100 Trial 3. 44 100 Trial 3. 44	Β
			Answer Options		
		Option A 20 cm.	Option B 30 cm.	Option C 42 cm.	Option D 120 cm

9	2_9 SCIENC E 5003	WORK & ENERGY Class-IX	Sonu and Monu are performing an activity on bouncing balls. They drop a normal tennis ball from different heights (DROP HEIGHT) and record how high the ball bounces (BOUNCE HEIGHT). This is what they have recorded. Study it carefully and answer question. Which of these questions can Sonu and Monu answer based on their experiment?	Finding the Bounce Height - by Sonu and Monu - done on Ap Ball type: Tennis Ball 40 Trial 1. 21 40 Trial 2. 22 Trial 3. 22 80 Trial 2. 43 7 Trial 3. 44 80 Trial 3. 44	Β
			Answer Options	·	
		Option A Does the bounce height depend on the type of the	Option B How does the bounce height change when the drop height changes?	Option C Does the size of the ball affect the bounce height?	Option D Does the nature of the floor influence the bounce height?

		ball?			
10	2_9 Science 5062	Work and Energy	Resistors are semi-conductor devices which are important components of electronic circuits. Resistance is measured in OHMS, and each resistor has a rating in ohms. Because a resistor is small and may be fixed in any orientation, its resistance value is coded on it using coloured bands rather than writing its resistance value on it. A colour code is used to determine the value of a resistor as per this table. What is the resistance of the resistor shown here? Answer Options		D
		Option A	Option B	Option C	Option D
		1000 ohms	20 ohms	2000 ohms	20000 ohms
11	2_9 Science 5063	Work and Energy	Resistors are semi-conductor devices which are important components of electronic circuits. Resistance is measured in OHMS, and each resistor has a rating in ohms. Because a resistor is small and may be fixed in any orientation, its resistance value is coded on it using coloured bands rather than writing its resistance value on it. A colour code is used to determine the value of a resistor as per this table. Which three colour bands represent 600 ohms?	Ist and 2nd Digit Colour Band Represented BLACK 0 SROWN 1 X10 BROWN 1 RED 2 X100 ORANGE 3 X1000 or 11K YELLOW 4 X10000 or 10K GREEN 5 VIOLET 7 GRAY 8 WHITE 9	A

	Answer Options						
		Option A Blue, Black, Brown	Option B Blue, Black, Brown	Option C Brown, Blue, Black	Option D Violet, Blue, Brown		
12	3_16 Science 2516	Work and Energy	Which are the bulbs connected in series with each other and which are connected in parallel in the circuit shown here?	Bulb 1 Bulb 2 Bulb 1 Bulb 2 Bulb 4	В		
				Series Parallel A 1 2,3,4 B 1,3 2,4 C 3,4 1,2 D 2 1,3,4			
			Answer Options		I		
		Option A A	Option B B	Option C C	Option D D		
13	2_9 Science 6169	Work and Energy	In the circuit given below, electricity will flow if there is a closed path from P to Q. Switches S_2 and S_3 will not allow electricity to flow if either is open. In which of these cases will current flow?		A		
	Answer Options						

		Option A	Option B	Option C	Option D
		S_1 and S_4 are	S ₂ and S ₄ are open; others are closed.	S_1 and S_2 are open; others	S₃and S₄ are open;
		open; others are		are closed.	others are closed.
		closed.			
14	3_15	Work and Energy	Nuclear power plants can produce		D
	Science		energy more cheaply and with less		
			pollution than thermal power		
	2622		plants. Why are there not more		
	3032		nuclear power plants than thermal		
			power plants?		
			Answer Options		
		Option A	Option B	Option C	Option D
		There is an endless	Nuclear fuels produce too little heat	A kilogram of fossil fuel	The issue of disposal
		supply of fossil	during the nuclear fission reaction	produces more energy than a	of radioactive
		fuels like coal		kilogram of nuclear fuel.	nuclear waste is not
		available.			satisfactorily
					resolved.
15	3_16	WORK AND	In the diagram below, a 20 Newton force is		В
		ENERGY	used to push a 2 kilogram toy cart a distance		
	Science		of 5 meters. The work done on the cart		
	2502		······		
	2502			2 Kg.	
				·····	
		1	Answer Options	1	1
Option A 40 J	Option B 100 J	Option C 150 J	Option D 200 J		
------------------	-------------------	-------------------	-------------------		

Subject: Science

Grade: 9th

Q.N	Folder name & Questio n Code	Торіс	Question with Answer Option	Image (If Any)	Correct Answer (Option-A,B,C,D)
1	2_9 Science 5085	WORK AND ENERGY	Which of these provides the energy for the motion of a petrol car?		Α
			Answer Options		
		Option A	Option B	Option C	Option D
		Petrol	Its battery	Its engine	Petrol and its battery

2	4_25 Science 11739	Sound	Study a sample polygraph output shown here. The person undergoing the test was asked six questions. The questions and answers are as shown below. It is known that the person answered question 1 truthfully. Assuming the polygraph result is valid, what conclusion can be reached?	t-word	MM manufana	В
				0	Transcript	
				Q. No.	Question	
				1	What is your name?	
				2	Where were you at 3pm last Sunday	
				3	Did you steal the jewels from the Go	
				4	Do you know David who was caught	
				5	Do you know where the stolen jewell	
				6	How did you get the bandage in your	
			Answer Options			
		Option A	Option B		Option C	Option D
		John Smith is	John Smith may not have actually robbed Gold	John	Smith was at the Gold	John Smith is
		definitely guilty of	Jewellers, but may have been involved.	Jewelle	ers store with David when	completely innocent
		robbing Gold		th	e robbery occurred.	and is not connected in
		Jewellers and has				any way with the
		the stolen iewellery.				robbery.

3	4_25 Science 11680	Sound	The diagrammatic representation of the sound wave given out by a siren of a security vehicle is shown below when the vehicle is STATIONARY, MOVING SLOWLY and MOVING FAST. As the vehicle APPROACHES an observer, in which of these ways will the sound heard change?	Stationary car	В
		I	Answer Options		
		Option A Its volume will decrease.	Option B Its pitch will increase.	Option C Its frequency will decrease.	Option D There will be no change in the sound heard
4	2_9 Science 5074	Sound *(more suitable when mapped to class VIII some natural phenomenon)	Study the principle of functioning of a seismograph shown in the diagram below. Seismographs are used to detect earthquakes and measure their intensities. The seismograph shown detects horizontal and vertical vibrations.The recordings made on both drums during an earthquake are shown below.How long did the quake last?	Horizontal reading	C
			Answer Options		
		Option A 3 seconds	Option B 20 seconds	Option C 28 seconds	Option D 44 seconds

Answer Options 6 2_9 Science 5068 SOUND The human heart beat can be recorded electrically, to detect any abnormalities in its functioning. The graph obtained is called an ELECTROCARDIOGRAM (ECG). Study the elements of a normal ECG shown below and answer the question. (1) P wave. The P wave is generated by the contraction of the upper chambers of the heart.(2). QRS complex. (3). T wave. The T wave is generated by the relaxation of the lower chambers of the heart. The entire cycle from one P wave to the next is one heartbeat. Based on the above normal ECG, estimate the normal heart beat tate in humans in beats per minute (bpm). Option C Television C Option 2 Television Option C Television	5	2_9 Science 6165	SOUND	Which of these does NOT use radio waves?		D
Option A FM radio Option B Mobile telephone Option C Television Option D Camera 6 2_9 Science 5068 SOUND The human heart beat can be recorded electrically, to detect any abnormalities in its functioning. The graph obtained is called an ELECTROCARDIOGRAM (ECG). Study the elements of a normal ECG shown below and answer the question. (1) P wave. The P wave is generated by the contraction of the upper chambers of the heart. (2). QRS complex. Contraction of the lower chambers of the heart generates the QRS wave complex.(3). T wave. The T wave is generated by the relaxation of the lower chambers of the heart. The entire cycle from one P wave to the next is one heartbeat. Based on the above normal ECG, estimate the normal heart beat rate in humans in beats per minute (bpm). Option C Television Option D Camera Source 1000000000000000000000000000000000000		1	1	Answer Options		
6 2_9 Science 5068 SOUND The human heart beat can be recorded electrically, to detect any abnormalities in its functioning. The graph obtained is called an ELECTROCARDIOGRAM (ECG). Study the elements of a normal ECG shown below and answer the question. (1) P wave. The P wave is generated by the contraction of the upper chambers of the heart.(2). QRS complex. Contraction of the lower chambers of the heart generates the QRS wave complex.(3). T wave. The T wave is generated by the relaxation of the lower chambers of the heart. The entire cycle from one P wave to the next is one heartbeat. Based on the above normal ECG, estimate the normal heart beat rate in humans in beats per minute (bpm). P 0 0 S			Option A FM radio	Option B Mobile telephone	Option C Television	Option D Camera
	6	2_9 Science 5068	SOUND	The human heart beat can be recorded electrically, to detect any abnormalities in its functioning. The graph obtained is called an ELECTROCARDIOGRAM (ECG). Study the elements of a normal ECG shown below and answer the question. (1) P wave. The P wave is generated by the contraction of the upper chambers of the heart.(2). QRS complex. Contraction of the lower chambers of the heart generates the QRS wave complex.(3). T wave. The T wave is generated by the relaxation of the lower chambers of the heart. The entire cycle from one P wave to the next is one heartbeat. Based on the above normal ECG, estimate the normal heart beat rate in humans in beats per minute (bpm). Answer Options	R 0.2sec Imv P Q S	C
				Answer Options		

		Option A	Option B	Option C	Option D		
		1 - 5 bpm	5 - 50 bpm	60 - 100 bpm	100 - 200 bpm		
7	2_9 Science 5069	SOUND	The human heart beat can be recorded electrically, to detect any abnormalities in its functioning. The graph obtained is called an ELECTROCARDIOGRAM (ECG). Study the elements of a normal ECG shown below and Identify the normal ECG from the four shown below	$\begin{array}{c c} & & & & & & \\ \hline \\ & & & & \\ & & & & \\ & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & &$	D		
			Answer Options	<u> </u>	<u>.</u>		
		Option A	Option B	Option C	Option D		
8	2_9 Science 5070	SOUND	The human heart beat can be recorded electrically, to detect any abnormalities in its functioning. The graph obtained is called an ELECTROCARDIOGRAM (ECG). Study the elements of a normal ECG shown .Under which of these conditions is the ECG likely NOT to change?	P Q S	C		
			Answer Options				

9	2_9 Science	Option A If the ECG is recorded immediately after strenuous exercise. SOUND	Option B If the ECG is recorded while a person is having high fever Most television sets these days can be operated through a REMOTE CONTROL.	Option C If the ECG is recorded immediately after a person wakes up.	Option D If the ECG is recorded soon after a heart surgery. B
	5058		TV sets?		
			Answer Options		
		Option A Using radio waves	Option B Using infra-red rays	Option C Using ultra-violet rays	Option D Using microwaves
10	2_9 Science 6164	Sound	Search for Extra-Terrestrial Intelligence (SETI) is the name of a project which is constantly monitoring electromagnetic waves being received from space. Many heavenly bodies also emit electromagnetic signals but these follow simple, regular patterns. If SETI detected the following patterns, which one of them is likely to be from intelligent aliens?		C
			Answer Options		
		Option A 5, 10, 15, 20	Option B 125, 100, 75, 50, 25	Option C 5, 7, 11, 13, 17	Option D 8, 8, 8, 8, 8

r	1	Ι			
11	3_15	Why Do We Fall Ill?	It is likely that when a person sweats, his	Read the details about the	C
	Science		body's electrical resistance	Lie Detector machine and	
	3671			answer the question.(A	
				polygraph or a lie detector is	
				based on the principle that	
				when a person is 'stressed'	
				(as happens when most	
				people tell a lie) the person's	
				involuntary nervous system	
				reacts to that stress by doing	
				a series of things including	
				increasing the respiration,	
				heart rate, and perspiration.	
				Most Lie Detectors measure	
				the amount of perspiration	
				on a person's skin using a	
				pair of electrodes and	
				displaying the result on a	
				meter. The meter movement	
				is proportional to the amount	
				of perspiration on the skin.	
				Devices which measure this	
				perspiration are also called	
				psychogalvanometers or	
				galvanic skin response (GSR)	
				meters.	
				• • •	
				1.0.00	

			Answer Options		
		Option A stays the same.	Option B increases	Option C decreases.	Option D becomes zero.
12	3_15 Science 3647	Why do we fall ill?	We wish to test if a certain vaccine developed for a disease is effective or not. What is the best way to do this?		C
	1		Answer Options		
		Option A Vaccinate 100 animals and expose all 100 to the disease.	Option B Vaccinate 100 animals and expose 50 of them to the disease.	Option C Vaccinate 50 animals, do not vaccinate 50 other animals, and expose all 100 to the disease.	Option D Vaccinate 50 animals, do not vaccinate 50 other animals, and expose the vaccinated animals to the disease
13	3_17 Science 1829	Why do we fall ill?	To which of the cells shown below does the disease TETANUS belong?	Bact Vaccination available Vaccination not available	A
			Answer Options		
		Option A A	Option B B	Option C C	Option D

14	4_23 Science 9128	Why do we fall ill?	Microorganisms causing diseases like tuberculosis (TB) sometimes develop resistance to the drug due to their exposure to the drugs. Which of these could contribute to this resistance?			A
			Answer Options			
15	4_24 Science 10388	Option A Patients not completing the treatment but stopping the course once they feel better. Why do we fall ill?	Option B Patients not beginning the prescribed treatment at all for different reasons. From the description above, we can guess that a placebo is	Optic Patients com treatment b prescribed medication.	on C tinuing the eyond the period of Incidence of cold per person 038 037	Option D Patients following doctors' advice and continuing the treatment exactly as instructed. C
	1		Answer Options			
		Option A Simply another name for an identical vitamin C tablet.	Option B a vitamin C tablet but which looks different (in colour and size)	Optic Something that vitamin C tablet medicinal value	on C looks like a but has no	Option D a tablet containing chemicals to cure the common cold, but not vitamin C.

Subject: Science

Grade: 9th

Q.N	Folder name & Questio n Code	Торіс	Question with Answer Option	Image (If Any)	Correct Answer (Option-A,B,C,D)
1	4_24 Science 10389	Why do we fall ill?	What conclusion can be drawn about the relation between the intake of vitamin C and the occurrence of common colds?		В
			Answer Options		
		Option A Regular intake of vitamin C reduces the occurrence of colds.	Option B Regular intake of vitamin C did not affect the occurrence of colds.	Option C Regular intake of vitamin C increases the occurrence of colds.	Option D Regular intake of vitamin C first increases, then decreases the occurrence of colds.

2	4_25 Science 11685	Why do we fall ill?	To which of the cells shown below does the disease TETANUS belong?		A
			Answer Options		
		Option A Bacteria	Option B Bacteria Virus	Option C Bacteria Virus	Option D Bacteria
		Vaccination available	Vaccination available A B	Vaccination available A B	Vaccination available A
		Vaccination not available C	Vaccination not available C D	Vaccination not available C D	Vaccination not available C
3	4_25 Science 11743	Why do we fall ill?	We wish to test if a certain vaccine developed for a disease is effective or not. What is the best way to do this?		C
			Answer Options		
		Option A	Option B	Option C	Option D
		Vaccinate 100	Vaccinate 100 animals and expose 50 of	Vaccinate 50 animals, do not	Vaccinate 50
		animals and	them to the disease.	vaccinate 50 other animals,	animals, do not
		the disease.		disease.	animals, and expose

4	4_25 Science 11806	Why do we fall ill?	What are vitamins?		the vaccinated animals to the disease. A
	1	1	Answer Options	l	I
		Option A Substances required in small amounts for normal body growth and activity.	Option B Substances that serve as a major energy source in the diets of animals.	Option C Complex biological molecules which are the 'building blocks of life'.	Option D Inorganic elements that are essential to the nutrition of animals and plants.
5	2_9 Science 5086	Why do we fall ill?	The pH of a substance is a measure of its acidity as shown in the scale .When Suresh complained of acidity, his doctor prescribed a liquid antacid which gave him relief. Which of these could be the pH of the antacid?	Acidic Basic	D
			Answer Options		
		Option A 0	Option B 3	Option C 7	Option D 9

6	2_9 Science 5053	Why do we fall ill?	Read the following statements:(1.) The mould may be producing a substance that kills the bacteria.(2.) As the black circular disk moved across the sun, the sky grew darker. (3.)Hydrogen gas will be released if a piece of Zinc is dropped in this liquid.(4.)When 2 objects are dropped together, they will reach the ground at the same time. Which row correctly identifies the statements above?	123AHypothesisObservationPredictionConclusionBPredictionObservationConclusionHypothesisCObservationConclusionHypothesisPredictionDConclusionHypothesisObservationPrediction	Α
	1	1			
		Option A A	Option B B	Option C C	Option D D
7	4_23 Science 9126	WHY DO WE FALL ILL	Which of the following diseases is spread by both contaminated food and contaminated water?		D
			Answer Options		
		Option A Common cold	Option B Chicken pox	Option C Rabies	Option D Typhoid
8	3_15 Science 3646	Why do we fall ill?	You read a newspaper report that a food product you consume regularly contains pesticides which can cause cancer in the		C

			long term. What would be the scientific thing to do at this stage?		
	1	1	Answer Options		
		Option A Ignore the report - anyway the effects are very long term.	Option B Stop consuming the product with immediate effect.	Option C Obtain more details about the tests and try to understand them.	Option D Discuss the issue widely with your friends and share your fears.
9	2_9 Science 6152	Why do we fall ill?	Viruses are responsible for causing many diseases. Among the following, which is NOT true about viruses?		C
			Answer Options		
10		Option A They can only multiply inside another host organism.	Option B They are not visible to the naked eye.	Option C They belong to the amoeba family.	Option D They exhibit a variety of structures.
	2_9 Science 5051	Why do we fall ill?	Ramesh buys a packet of pasteurized milk from the market. Ramesh then boils the milk and drinks it. Why does Ramesh boil the milk before drinking it?		D

			Answer Options				
		Option A Boiling kills the germs and bacteria in the milk.	Option B Boiling improves the taste of the milk.	Option C Boiling makes the milk more nutritious.	Option D There is no advantage - it is more out of habit.		
11	3_16 Science 2498	Why do we fall ill?	When people fall ill, their immune system fights the disease and tries to restore the person to good health. Which disease is known to attack the human immune system leaving the body susceptible to various kinds of infection?		D		
			Answer Options				
		Option A Chicken Pox	Option B Pneumonia	Option C Tuberculosis	Option D AIDS		
12	3_16 Science 2534	Why do we fall ill?	Paracetamol tablets are given by doctors to reduce fever in patients.According to this label found on the tablets, the MAXIMUM amount of Paracetamol that a patient can be given IN 24 HOURS is	Paracetamol Tablets Each uncoated tablet contains: Paracetamol I.P 500mg Indication: For symptomatic relief from mild to moderate pain Dosage: 1 to 2 tablets 3 to 4 times in any 24 hour period or as dire Maximum dose in 24 hours: 8 tablets in equally divided do Not suitable for children under 12 years.	D		
	Answer Options						

		Option A	Option B	Option C	Option D			
		500 mg		2000 mg	4000 mg			
13	4_23 Science 9137	Natural Resources	What is the appropriate name of the sediment that can pass through mesh number 5 BUT cannot pass through mesh number 10?		С			
	Answer Options							
		Option A Small cobble	Option B Coarse gravel	Option C Very fine gravel	Option D Fine sand			
	1 22							
14	4_23 Science 9141	Natural Resources	The cross section of a lake is shown below. Its surface is frozen. Which of these statements is likely to be MOST accurate about the temperature at the bottom of the lake?		В			
14	4_23 Science 9141	Natural Resources	The cross section of a lake is shown below. Its surface is frozen. Which of these statements is likely to be MOST accurate about the temperature at the bottom of the lake? Answer Options		В			

		Option A	Option B	Option C	Option D
		It will definitely be	It will definitely be 4°C or lower.	It will definitely be 10°C	It will definitely be
		0°C or lower.		or lower.	5°C or higher.
15	4_23 Science 9142	Natural Resources	What is the MAIN CAUSE of death for fish in water bodies polluted by fertilizers?		В
			Answer Options		
		Option A	Option B	Option C	Option D
		decreased	decrease in oxygen levels	increased water	decrease in number
		nutrition levels for		temperatures	of bacteria
		algae			

Subject: Science

Grade: 9th

Q.N	Folder name & Questio n Code	Торіс	Question with Answer Option	Image (If Any)	Correct Answer (Option-A,B,C,D)
1	4_23 Science 9154	Natural Resources	In which of these cases is the air MOST polluted?		A
			Answer Options		
		Option A	Option B	Option C	Option D
		Xanthoria are	Parmelia are growing, but NOT usnea.	Pleurococcus are growing,	Neither usnea NOR
		growing, but NOT		and also usnea	xanthoria are
		parmelia.			growing.

2	4_23 Science 9155	Natural Resources	A factory treats its effluents with the aim of making the water completely unpolluted. Which of the following animals should be able to breed there in order for the company to say that the treatment has been a success? Answer Options		D		
		Option A	Option B	Option C	Option D		
		Rat tailed maggots	Bloodworms	Freshwater shrimps	Stone-fly nymphs		
3	4_25 Science 11666	Natural Resources	Which of these fuels will cause the least amount of Suspended Particulate Matter (SPM) pollution when burned?		D		
	Answer Options						
4		Option A Cowdung	Option B Coal	Option C wood	Option D Natural Gas		

	4_25 Science 11672	Natural Resources	The Andaman Islands in the Bay of Bengal depend exclusively on rain for their freshwater supply. Some of the hotels in the Andamans started using seawater instead of fresh water for flushing toilets. This is an example of		В
			Answer Options		
			1		
		Option A	Option B	Option C	Option D
		Recycling of resources.	Conservation of resources.	Prevention of pollution.	Environmental planning.
5	3_15 Science 3653	Natural resources	Here are many reasons why the amount of heat received at higher latitudes is less than the lower latitudes. Which of these is NOT a reason?	- Atmosphere Earth	В
			Answer Options		
		Option A Sunlight has to pass through a greater thickness of atmosphere in the higher latitudes.	Option B Sunlight has to travel a greater distance to enter the atmosphere in the higher latitudes.	Option C Sunlight that strikes the Earth is spread over a greater area in the higher latitudes.	Option D More of the sunlight striking Earth is reflected away in the higher latitudes.

6	2_9 Science 5050	Natural resources	The figure shows five Roman coins issued between 65 AD and 117 AD. Their names are also shown alongside. From the scale given, we can say that the diameter of the sestertius issued by Nero was about:	SESTERTIUS DUPONDIUS SENIS QUADRAN	C
	I		Answer Options	I	
		Option A	Option B	Option C	Option D
		2 cm	2.6 cm	3.2 cm	3.8 cm
7	2_9 Science	Natural resources	Which of these is true about the temperature from the surface of the earth to its core?		A
	6162				
			Answer Options		
		Option A The temperature RISES constantly from the surface to the core.	Option B The temperature FALLS constantly from the surface to the core.	Option C The temperature FALLS for about 20 kilometres and then RISES till the core.	Option D The temperature RISES for about 20 kilometres and then FALLS till the core.

8	2_9 Science 6168	Natural resources	Study the graphs showing the average temperature (using the scale on the RIGHT) and rainfall statistics (using the scale on the LEFT) for 4 important cities. The question is based on this data. A characteristic of cities in the southern hemisphere that can be observed in the above graphs is	Adelaide, Australia and a second seco	В			
	u	1	Answer Options					
			•					
		Option A They receive most of their rainfall in the summer months.	Option B They have summer when the northern hemisphere has winter.	Option C The variation in temperature is quite high across the year.	Option D June is the month of maximum rainfall.			
9	2_9 Science 5091	Natural resources	Study this satellite map of India of April 14, 2003. Over which of the FOLLOWING states / regions are the most clouds observed:		C			
	Answer Options							

		Option A Maharashtra	Option B Karnataka	Option C North-eastern region	Option D Rajasthan
10	2_9 Science 5076	Natural Resources	Study the table and answer questions. Which of these is the source for pollutants like lead, NO ₂ and SO ₂ ?	Pollatant Description Sources Effects Carbon Monoxide Antimates, sinchestens Cars, source areas Anna vagen in Kark, and Sark and S	C
			Answer Options		
		Option A Cars	Option B Wood stoves	Option C Coal-fired power plants	Option D Refineries
11	2_9 Science 5075	Natural Resources	Study the table below and answer questions This pollutant is released from cars, causes lung damage and dissolves in water to form an acid. It is	Pullation Description Sources Effects Carbon Monoxide Antivation, standarding and standard standards, standarding and standards, standards, standards, and standards, standards, standards, and standards, standards, standards, and standards, standards, standard, standard, standards, standards, standards, standards, standards	В
			Answer Options		
		Option A Carbon monoxide	Option B Nitrogen Dioxide	Option C Ozone	Option D Sulphur Dioxide

12	3_17 Science 1857	NATURAL RESORCES	What will happen to the flame when air is blown as shown in the figure?	Fur	A
			Answer Options		
		Option A	Option B	Option C	Option D
		A.	B.	c.	
	4_23	NATURAL	Aditya did the following experiment. He		
13	Science	RESOURSES	took 2 green bananas in a polythene cover		
	9159		and kept them aside on a shelf. Then he took 2 more green bananas from the same bunch of fruits, and an apple, and put them in an identical polythene cover and kept them on the same shelf.He left both polythene covers undisturbed for two days. What was the hypothesis that Aditya was probably trying to check?		В
			Answer Options		

		Option A	Option B	Option C	Option D
		In nature bananas	Apples increase the speed at which	Bananas increase the speed	Polythene increases
		ripen completely in	bananas ripen.	at which apples ripen.	the speed at which
		about 2 days.			apples ripen.
14	4_24 Science 10362	Natural resources	Since sulphur in the free state is found at depths of more than 150 meters below the Earth's surface, the method of extraction of sulphur differs from other materials. The figure given below depicts this. In this process, super-heated water and compressed air are passed underground through pipes. Due to the pressure, liquid sulphur flows out of the pipe. Which of the properties of sulphur, mentioned in the table above, are used in its extraction?	Compresse Super-heated water (above 100 ¹ C) P Its atomic mass is 32. Q It has 16 neutrons in an atom. R Its melting point is 115.2 ¹ C. S Its boiling point is 444.6 ¹ C. T It is insoluble in water. W It combines with oxygen.	В

			Answer Options		
		Option A P and Q	Option B R and T	Option C S and W	Option D Q, S and W
15	4_24 Science 10369	Natural resources	A hydrocarbon is burnt in air completely. What are the products obtained?		A
			Answer Options		
		Option A Carbon dioxide + water	Option B Carbon monoxide + water	Option C Carbon black + water	Option D Graphite + water

Subject: Science

Grade: 9th

Q.N	Folder name & Questio n Code	Торіс	Question with Answer Option	Image (If Any)	Correct Answer (Option-A,B,C,D)
1	3_16 Science 2517	NATURAL RESOURCES	Which letters could correspond to carbon dioxide and carbon monoxide in the flowchart shown here?	GASES Ves Is it colourless? Ves Is it odourless? Ves Is it poisonous? No	C
			Answer Options		
		Option A Both would	Option B Both would correspond to S	Option C Carbon dioxide would	Option D Carbon dioxide

2	3_16 Science	Correspond to R NATURAL RESOURCES	In many countries including India, petrol cars are expected to use unleaded petrol and not leaded petrol which was used earlier. What is the reason for this?	correspond to R and Carbon monoxide to S	would correspond to S and Carbon monoxide to R B
	2505				
			Answer Options		
		Ontion A	Ontion B	Ontion C	Ontion D
		Unleaded petrol is cheaper than leaded petrol	Unleaded petrol is less hazardous for human health.	Unleaded petrol gives more mileage than leaded petrol	All of the above
3	3_16 Science 2512	NATURAL RESOURCES	The Andaman Islands in the Bay of Bengal depend exclusively on rain for their freshwater supply. Some of the hotels in the Andamans started using seawater instead of fresh water for flushing toilets. This is an example of		В
			Answer Options		
		Option A recycling of resources	Option B conservation of resources	Option C prevention of pollution	Option D environmental planning

4	2_9 Science 6167	NATURAL RESOURCES	Among the cities shown, which receives the most rainfall in a year?	Study the graphs showing the average temperature (using the scale on the RIGHT) and rainfall statistics (using the scale on the LEFT) for 4 important cities. The guestion is based on this data	C
				Addelade, Australia a a a a a a a a a a a a a	
	•		Answer Options		
		Option A Adelaide	Option B London	Option C Tokyo	Option D Mumbai
5	2_9 Science 5052	NATURAL RESOURCES	The fire shown below started in a factory due to a leaking petroleum product. Where the stream from the fire extinguisher should be directed?	A C C C OI	C
	-		Answer Options	_	
		Option A A	Option B B	Option C C	Option D D

6	2_9 Science 6138	NATURAL RESOURCES	Given below is a list of household waste. The list has been put under 2 headings. One item in the list has been put under the WRONG heading. Identify it.	PUT IN COMPOST PIT Glass bottle Vegetable waste Leaves Used tea leaves	SENT FOR RECYC Polythene bags Plastic bottles Tin cans Cartons (Cardboard b	Α
		•	Answer Options			
		Option A Glass bottle	Option B Leaves	Option C Polythene bags		Option D Tin cans
7	2_9 Science 6146	NATURAL RESOURCES	According to a recent newspaper report, environmentalists are fighting for use of diesel having lower sulphur content. Why?			В
		•	Answer Options			
		Option A Manufacture of sulphur is a highly polluting process	Option B Sulphur dioxide in the exhaust of these vehicles is a major air pollutant	Option C Diesel having sul the engine and tl health	phur harms he driver's	Option D Sulphuric acid is produced in the engine of these



		Option A	Option B	Option C	Option D
		the various natural	a complex series of interactions by which	the process by which water	the evaporation,
		and man-made	carbon passes through the air, water, land	travels in a sequence from	condensation and
		processes that	and living things	the air to the Earth and	precipitation of
		release carbon		returns to the atmosphere	carbon dioxide in the
		dioxide into the			Earth's eco-system
		atmosphere			
10		NATURAL	All the processes listed below RELEASE	Study the illustration	А
		RESOURCES	carbon dioxide, except one. Identify the	representing the Carbon	
	3_15		one that does NOT release carbon dioxide.	Cycle and answer the	
	Science			question	
	3669			The carbon cycle Carbon dioxide (CO2) in air	
				-11	
				Photosynthesis Respiration in producers Burning and fossi	
				CO ₂ dissolved in ocean Consumers	
				Decomposition of Photosynthesis organic wastes and aquatic food coain	
				Possi Tuors	
			Answer Options		
		Option A	Option B	Option C	Option D
		Photosynthesis	Burning of wood	Respiration	Organic
		,			decomposition
	3_17	Natural resources	Which type of soil do the particles shown	Gravel Sand	· ·
11	Science		in the figure belong to?(Use the scale	Graver Sana	
	1828		given in the photograph)	> 2 mm 0.05 - 2 mm	В

				Зтлл	
			Answer Options		
		Option A Gravel	Option B Sand	Option C Slit	Option D clay
12	4_24 Science 10387	Natural Resources	All the GIVEN steps aim at	1. Reduce automobile usage: take public transp 2. Save energy, switch off eletrical appliances w 3. Plant trees 4. Recycle	A
			Answer Options		
		Option A reducing global warming	Option B reducing green coverage	Option C increasing power supply	Option D reducing the ozone layer

13	4_23 Science 9136	Natural Resources	Which of these meshes would allow FINE SAND through but not COARSE SAND?		В
			Answer Options		
		Option A Size 20	Option B Size 50	Option C Size 100	Option D Size 200
14	3_16 Science 2513	NATURAL RESOURCES	An animal census in Mudhumalai Wildlife Sanctuary revealed that there were about 2,000 elephants, 40 tigers, 200 sloth bears, 13,000 deer and more than 40,000 miscellaneous animals in these jungles. Which is the best method of representing this data in a meaningful way?		A
			Answer Options		
		Option A table	Option B a pie chart	Option C a line graph	Option D a Venn diagram
15	3_16 Science 2514	NATURAL RESOURCES	Identify P,Q and R in this representation of the Rock Cycle	P Heat and Pressure MeltingLava	Α

		P Q A.Igneous Rocks Sedimentary B.Sedimentary Rocks Metamorphi C.Igneous Rocks Metamorphic D.Metamorphic Rocks Sedimentary	R ocks Metamorphic c Rocks Igneous Rock Rocks Sedimentary R Rocks Igneous Rock	
I	An	wer Options	I	
Option A A	Option B B	Option C C	Option D D	
Question Paper

Subject: Science

Grade: 9th

Set-13

Q.N	Folder name & Questio n Code	Topic	Question with Answer Option	Image (If Any)	Correct Answer (Option-A,B,C,D)
1	3_16 Science 2499	Improvement In Food Resources	Farm Fresh" shop in Kolkata advertises that they sell vegetables grown through organic farming methods. What is likely to be special about such vegetables?"		D
			Answer Op	tions	
		Option A They are	Option B They remain fresh for longer periods of	Option C They are genetically modified for better taste.	Option D They are grown

		available at much	time.		without chemical fertilizers.
		prices.			
2	4_25 Science 11742	Improvement in food resources	Sarathy wishes to investigate the effect of the type of light on a plant's growth. He takes three identical potted plants and places one in the lawn, one in a closed room containing a tubelight; and a third in a closed room containing a bulb which gives yellow light. The bulb and tubelight are always on. He waters the plants regularly and to the same extent. Which of these could introduce error into the experiment results?	Plant A Water Water Soil Water Soil CH Plant A Water Soil	A
			Answer Op	tions	
		Option A	Option B	Option C	Option D
		The fact that the tubelight and bulb are never switched off.	The fact that the light intensities are different in the three cases.	The fact that the three plants were watered similarly.	All of the above
3	4_23 Science 9138	Improvement in food resources	YEAST is used to make which of these?		A

			Answer Op	tions		
		Option A Bread	Option B Dal		Option C Milk	Option D Curd
4	3_15	Improvement	The table below shows a few products	Plant Produce	Animal Produce	С
	Science	In Food	obtained from plants and animals. Which	Jaggery	Pearls	
	3631	Resources	one of the following has been placed in	Cardamom	Wool	
			the wrong column?	Bamboo	Rubber	
				Tamarind	Silk	
Answ	er Options					
		Option A	Option B	Option C		Option D
		Jaggery	Tamarind	Rubber		Silk
5	4_23 Science 9164	Improvement in food resources	See the graphical data representations for a crop in the year 2003. In 2004, a very effective pest control programme was introduced. There was no change in any of the other factors. Which of these would have been the graph for 2004?			A

				0 100%	
				eaten by pests	
				killed or damag	9
				arowth lost bec	
	or Ontions				
AIISWE					
		Ontion A	Ontion P	Ontion C	Ontion D
		A	В	L	U

Question Paper

Subject: Science

Grade: 9th

Set-14(MIXED SET)

Q.N	Folder name & Questio	Topic	Question with Answer OptionImage (If Any)		Correct Answer (Option-
1	1_3 Scienc e 7325	7.DIVERSIT Y IN LIVING ORGANISM	Among these species, which one appeared most recently on the earth?		C
			Answer Options		
	Option A Fish	Option B Reptiles	Option C Man	Option D Birds	
2	4_23 Science 9045	9.FORCE AND LAWS OF MOTION	The momentum of a moving object is a measure of its motion, and is defined as the product of its mass and velocity. That is why, in common experience, the impact of hitting a moving object depends both on its size (mass) and its speed (velocity). What would be the unit of momentum?		C
			Answer Options		

	Option A Kg x s	Option B Kg x m x s	Option C Kg x m/s Kg x m/s				
3.	3_16 Science	10.GRAVI TATION	The density of water is 1 g/cm ³ . If each of these liquids X, Y and Z is immiscible in	ater is 1 g/cm ³ . If each of Y and Z is immiscible in Liquid Mass (g) Volume (cm ³)		С	
	2422		water, which of them will float on water?	Х	5.4	5	
				Y	46	50	
				7	130	100	
			Answer Options				l
	Option A All the three liquids will float	Option B Liquids X and Z will float	Option C Liquid Y will float	The informat	Option D ion given is not o	enough to decide	
4	4_23 Science 9062	11.WORK AND ENERGY	Take a paper or Styrofoam cup, and make a small hole with a sharpened pencil on the side of the cup near its bottom. Hold your thumb over the hole as you fill the cup with water. Remove your thumb. Water will flow out as shown here. Take the same cup. Again, seal the hole with your thumb and fill the cup. Drop the filled cup from a height as shown here and observe it carefully while it falls. What will happen to the water flow WHILE THE CUP IS FALLING?			C	

			Answer Options		
	Option A The flow of water will increase	Option B The flow of water will almost stop	Option C The flow of water will remain unchanged	Option D The water will overflow from the top of the cup	
5	4_23 Science 9045	9.FORCE AND LAWS OF MOTION	The momentum of a moving object is a measure of its motion, and is defined as the product of its mass and velocity. That is why, in common experience, the impact of hitting a moving object depends both on its size (mass) and its speed (velocity). What would be the unit of momentum?		C
			Answer Options		
	Option A Kg x s	Option B Kg x m x s	Option C Kg x m/s	Option D Kg x m/s	



	We're Moving							
8	4_23 S	cience	11.\	WORK AND ENERGY	In which of these sim	ple		
					machines is the outp	ut force		В
	90	40			(exerted by the mach	nine)		
					GREATER than the in	put force		
					Answer Ontions	l f		
	Option A	Option l	В	Optio	on C	Option D		
	Beam	Wheel		Fishing	g rod		Scissors	
	balance	barrow	,					
9	4 23	11.WORK		Springs 1 and 2 as sho	own in the figure are			Α
_	Science	AND ENER	GY	identical springs. In t	he positions shown,			
	9060			which spring has mo	ore stored energy?			
							Spring 1 Spring 2	
					Answer Options			
	Option A	Option l	В	Optio	on C		Option D	
	Spring 1	Spring 2 h	as	Both have the sam	ne stored energy.	It dep	ends on the spring's material.	
	has more	more stor	ed					
	stored	energy.						
	energy.							

10	4_23	12.SOUND	The table below shows the speed of sound Medium Speed of sound (m/s) State				В
	Science		in different substances. The names of the	Air (0°C)	331	gas	
	0050		substances are given in alphabetical order.	Copper	4760	solid	
	9039		follow the pattern of the speed of sound	Cork	500	solid	
			in materials of different states of matter?	Helium (0°C)	965	gas	
			in materials of amerene states of matters	Hvdrogen	1284	gas	
				Kerosene (25°C)	1324	liquid	
				Lead	1960	solid	
				Mercury	1452	liquid	
				Rubber	1830	solid	
				Water (20°C)	1482	liquid	
			Answer Ontions	Matol (20 0)	1102	Iquiu	
	Option A	Option B	Option C		Option D		
	Air	Cork	Mercury		Water		
11	4 23	12 SOUND	The question is related to the speed of				
	Science	12.300110	sound. If the formula.				
			v = K + 0.6T gives the speed of sound in air				
	9058		(v) in metres per second, where T is the				
			temperature of the air in degrees Celsius,				
			what should K be equal to?				
			Answer Options				
	Ontion A	Ontion R	Ontion C		Ontion D		
	speed of	speed of	a constant representing the temperature	(the value of K c	annot be deterr	nined from th	e
	sound in	sound in air	of the air	in	formation given)	
	vacuum	at 0 ⁰ C in			8	,	
	in	metres per					
	metres	second					
	per						
	second						

12	4_23 Science 9034 20.5.10	13.(Why do we fall ill)	Which of the following diseases can be caused by eating the pastry infected by germs from this fly?				
				Answer Options			
	Option A Diarrhoe a	Option B Malaria	Option (Measles		Option D Cold		
13	4_25 Science 11959 12.3.6	13.(Why do we fall ill)	Smallpox, a deadly disease to have been eradicated, wa to spread through the air. that it actually sprea	Smallpox, a deadly disease which is believed to have been eradicated, was initially thought to spread through the air. Today, we know that it actually spread through			
	1		I	Answer Options		1	
	O Contan	ption A ninated water.	Option B Carrier mosquitoes.	Option C Contact with an infected person.	Option D Contaminated food.		
14	3_1	6 Science 2410 24.6.12	13.(Why do we fall ill)	/hy do we fall ill) Ketki is unwell. Her mother adds 1 teaspoon of table salt and 8 teaspoons of sugar in a litre of water and gives it to Ketki to drink at regular		В	

					intervals. What is Ketk probably suffering fr	ri most rom?
	Answer Options					
	Option A Jaundice	Oj D	otion B iarrhea		Option C Typhoid	Option D Pneumonia