

## INDIAN SCHOOL SOHAR TERM II EXAMINATION (2022-23) SCIENCE

CLASS : VII DATE: 07/03/2023 MAX. MARKS: 80 TIME: 3 HOURS

## **General Instructions:**

- i. This question paper consists of 39 questions in 5 sections.
- ii. All questions are compulsory. However, an internal choice is provided in some questions. A student is expected to attempt only one of these questions.
- iii. Section A consists of 20 objective type questions carrying 1 mark each.
- iv. **Section B** consists of 6 very short questions carrying 2 marks each. Answers to these questions should be in the range of 30 to 50 words.
- v. Section C consists of 7 short answer type questions carrying 3 marks each. Answers to these questions should be in the range of 50 to 80 words.
- vi. **Section D** consists of 3 long answer type questions carrying 5 marks each. Answers to these questions should be in the range of 80 to 120 words.
- vii. Section E consists of 3 source-based/case-based questions of 4 marks each with sub-parts.

SECTION – A					
Select and write one most appropriate option out of the four options given for each of the questions					
1 - 20					
1	Normal range of breathing rate per minute in an average adult person at rest is:				
	(a) 21-24 (b) 9-12 (c) 30-33 (d) 15-18				
2	A student notices the swing of a pendulum as shown in the image. She notices that the bob of	1			
	the pendulum starts from position A to C and then back to A in 2 seconds.				
	What is the time period of the pendulum?				
	A C				
	В				
	(a) 0.5 second (b) 2 seconds (c) 1 second (d) 4 seconds				
3	On adding phenolphthalein indicator to a colourless solution, no change is observed. What is				
	the nature of this solution?				
	(a) Either basic or neutral (b) Either acidic or basic				
	(c) Either acidic or neutral (d) Basic				
4	A student observed that a pond with clear water got covered up with green algae within a	1			
	week. By which method of reproduction did the algae spread so rapidly?				
	(a) Pollination (b) Fragmentation				
	(c) Budding (d) Sexual reproduction				

5	Which of the following labelled part performs the function of filtration of blood? (a) 1 (b) 2 (c) 3 (d) 4	1
	4	
6	Siddhant got an injury on his knee while playing football in the ground. Blood oozed out from the injured site, but after a few minutes, he observed a brown coloured clot on the same site. Which component of the blood might have formed this clot? (a) plasma (b) white blood cells (c) red blood cells (d) platelets	1
7	<ul> <li>A student sets up an experiment to study human respiration. He fills freshly prepared lime water in a test tube and blows air through a glass tube into it. He observed that the solution turns milky. What can be evaluated from this observation?</li> <li>(a) Oxygen is exhaled during respiration.</li> <li>(b) Water vapour is produced during respiration.</li> <li>(c) Carbon dioxide is exhaled during respiration.</li> <li>(d) Glucose is produced during respiration.</li> </ul>	1
8	James and John were given one mirror each by their teacher. James found his image to be erect and of the same size whereas John found his image erect and smaller in size. This means that the mirrors of James and John are, respectively (a) plane mirror and convex mirror (c) plane mirror and concave mirror (d) convex mirror and Plane mirror	1
9	A woman baked a cake by following the steps given below: Step 1: Mix flour, water, eggs, sugar and milk in a bowl. Step 2: Place the batter in a baking tray and bake a cake in the oven. Which types of changes do each of these steps represent? (a)1: physical change, 2: chemical change (b) 1: physical change, 2: physical change (c)1: chemical change 2: chemical change (d)1: chemical change, 2: physical change	1
10	The graph represents time taken by a car to cover a certain distance.	1

11	Select the option that indicates the correct pathway of water transport through a plant.					
	(a) root hair cell> xylem> stomata					
	(b) stomata> root hair cell> xylem					
	(c) xylem> stomata> root hair cell					
	(d) root hair cell> phloem> stomata					
12	A student found a mixture that contains pieces of paper and some pins. He wants to 1					
	separate the pins from the mixture without handpicking them. Which of these procedures					
	would help him to separate the pins from pieces of paper?					
	(a) Place wires carrying electricity into the mixture					
	(b) Place an electric bulb in the mixture					
	(b) Place an electric build in the mixture					
	(d) Build a magnet using electricity					
13	A researcher wants to study asexual reproduction. He prepares two slides for microscopic	1				
15	chearthans from the following samples:	-				
	Sample for slide A: Bread dough raised by adding yeast					
	Sample for slide A. Bread slice which was left for a longer period of time in maisture					
	Sample for side B. Bread side which was left for a longer period of time in moisture.					
	Coloct the correct ention for his observations					
	(a)Slide A Budding Slide D Frequentation					
	(a)Slide A- Budding, Slide B-Fragmentation					
	(b)Slide A- Spore formation, Slide B-Budding					
	(c)Slide A- Budding, Slide B-Spore Formation					
	(d)Slide A- Fragmentation, Slide B-Spore Formation	l				
14	Which mark is necessary on electric appliances?	1				
	(a) AGMARK (b) ISI (c) ISS (d) IIS					
15	Products of neutralization reaction are always:	1				
	(a) acid and base					
	(b) acid and salt					
	(c) salt and water					
	(d) salt and base					
16	Our body has a network of blood vessels. Pick out the blood vessels that have thick elastic	1				
	walls.					
	(a) arteries (b) capillaries	1				
	(c) veins (d) atria					
Q. r	10 17 to 20 are Assertion - Reasoning based questions.					
The	se consist of two statements – Assertion (A) and Reason (R). Answer these questions selectin	۱g				
the	appropriate option given below:					
(a)	Both A and R are true and R is the correct explanation of A					
(b)	) Both A and R are true and R is not the correct explanation of A					
(c)	A is true but R is false					
(d)	) A is False but R is true					
17	Assertion(A) : We can see a source of light through a bent tube.	1				
	Reason(R) : Light travels in a straight line.					
18	Assertion(A) : Turmeric stain on white shirt turns red on washing with soap.	1				
	Reason(R) : The soap solution is basic in nature.					
19	Assertion(A): Cutting of paper into very small piece is an irreversible change.	1				
	<b>Reason(R)</b> : Physical change are always reversible.					
20	Assertion(A): There is a partition between the chambers of heart.					
1	<b>Reason(R)</b> :The partition between the chambers helps to avoid mixing up of	ĺ				
	oxygenated and deoxygenated blood.	ĺ				
		·				

SECTION – B					
	Q. no. 21 to 26 are very short answer questions.				
21	Suresh became exhausted and lethargic after heavy exercise. He got relief after taking a hot	2			
	bath and proper rest.				
	(a) What is the scientific reason behind it?				
	(b) The felt fidingly after such heavy exercise. Give feason				
	(a) Give any one difference between respiration and breathing				
	(a) Give any one difference between respiration and breathing.				
	process of inhalation and which shows the process of exhalation?				
	, de s				
22	Draw an electric circuit diagram which includes the following and show the direction of flow	2			
	of current.				
22	A partery, a build, an open switch	2			
23	he felt rhythmic throbbing movements. What terminology can be used for these	2			
	movements, and what could be the reason for feeling them?				
24	(a) What makes convex mirror best suitable to be used as a rear view mirror?				
24	(a) what makes convex mirror best suitable to be used as a real view mirror?				
	(b) Konan is observing his image in a plane mirror. The distance between the mirror and his image is 5 m. If he moves 3m towards the mirror thon what will be the				
	distance between Rohan and his image?				
25	Study the activities given below and answer the questions that follow.	2			
	(a) Write the type of motions in activities: P,Q, R and S.				
	OR				
	(a) Draw a graph showing the motion of a car moving at constant speed.				
	(b) Name the time measuring device which is based on the study of the shadow cast by the				
26	(a) Why does the colour of copper sulphate change from blue to green when an iron nail is	2			
20	dipped in copper sulphate solution?	<u> </u>			
	(b) Write the word/chemical equation involved in the above change.				
	SECTION - C				
	Q.no. 27 to 33 are short answer questions.				
27	Observe the figures given below and answer the following questions.	3			
	A B				
	identify and explain the type of pollination shown in the figures A and B.				

28	(a) How does the movement of water differ from the movement of food in a plant?	2			
20	(a) Now does the movement of water direct nom the movement of rood in a plant: (b) Which side of the heart has carbon dioxide rich blood?	5			
	(c) What prevents the backflow of blood inside the beart during contraction?				
20	(c) A student is stung by an ant while playing and is suffering from hyrning pain. An alderly	2			
29	(a) A student is stung by an ant while playing and is suffering from burning pain. An elderly 3				
	(i) What sould be the reason for the hurning rain?				
	(i) What could be the reason for the burning pain?				
	(ii) What does moist baking soda do to the sting of an ant?				
	(b) After carrying out the neutralisation reaction, the test tube is immediately found to be				
	somewhat hot. Explain why.				
	OR				
	(a) What is the chemical composition of :				
	(i) slaked lime (ii) calamine solution (iii) milk of magnesia (iv) baking soda				
20	(b) Name the source from which litmus dye is obtained.	2			
30	(a) A teacher told students that the seed dispersal in Xanthium plant takes place by animals;	3			
	nowever, seed dispersal in maple trees takes place by air. What features of these plants				
	make their mode of seed dispersal different?				
	(b) How does water reaches the greater heights in very tall trees?				
31	(a) Differentiate between uniform motion and non-uniform motion.	3			
	(b) Monika takes 20 minutes from her house to reach her school on a bicycle. If the bicycle				
	has a speed of 3m/s, calculate the distance between her house and the school.	•			
32	In the diagram given below, label the parts marked (a), (b) and (c).	3			
	(a)				
	(b)				
		•			
33	Sonal observed that most of the fish in the pond of her village were gradually dying. She also	3			
	observed that the waste of a factory in her village is flowing into the pond which probably				
	caused the fish to die.				
	(a) What is the nature of the waste released by factory?				
	(b) How can it be neutralised?				
	(c) Explain why the fish were dying.				
	SECTION – D				
2.4	Q.no. 34 to 36 are Long answer questions	-			
34	(a) Give reason for the following:	5			
	(i) Dentists use concave mirrors.				
	(ii) ii we raise our right hand in front of a mirror, the left hand of our image				
	seems to be raised.				
	(III) CONVEX MITTORS are used as rear VIEW MITTOR IN VENICIES.				
	(b) Identify the figures A and B. write any one				
	characteristics of image formed by each of them.				
	UK				
	(a) Name any two letters of English alphabet in which the image formed in a plane				
	mirror appears exactly like the letters.				
	(b) If you are given two lenses – convex and concave, to read a dictionary, which lens				
	would you choose and why?				

	(a) State the correct converse (1,7) of hand of colours formed by the price, shown					
	(c) State the correct sequence (1-7) of band of colours formed by the prism, snown					
	in the figure. Also name the term given to the band of seven colours obtained.					
35	(a) When magnesium ribben is burnt, a new substance (7' is formed which is basic in nature 5					
55	(a) when magnesium ribbon is burnt, a new substance Z is formed which is basic in flature. 5					
	(ii) Name the type of change in	wolved in the i	reaction			
	(h) State any two applications of r	eutralization r	reaction in day t	o day life		
	(c) Why it is advised to handle acid	ds and bases c	arofully?	o day me.		
			arcruity:			
	(a) State three conditions on whic	h the amount	of heat produce	d in a wire depends on		
	(a) State three conditions on which	n the amount	d magnotic offo	ct of electricity		
20	(b) Write any one application each	for the mustin			-	
30	(a) state two conditions necessary	for the rustin	g of fron objects	S. Also, write the	5	
	chemical equation.					
	(b) write the chemical symbols/ic	rmulae used in	or the following			
	1. Magnesium oxide	2. Calciu	m 			
	3. water	4. Carbo	n dioxide			
		SECTION	N-E			
Q.r	- no. 37 to 39 are case - based/data provi	based question	is with 2 to 3 sh bese sub-parts	ort sub - parts. Internal choice	e is	
27	Wires made from some special m	torials molt a	uickly and broak	when large electric surrents	л	
57	are passed through them. These		ulckly allu bleak	lostric fuses in all buildings	4	
	fuses are incerted in all electrical	wires are use	ia a maximum li	net on the surrent which can		
	ruses are inserted in an electrical	fuses are inserted in all electrical circuits. There is a maximum limit on the current which can				
	safely flow through a circuit. If by accident the current exceeds this safe limit, the wires may					
	become overheated and may cau	accident the c	urrent exceeds	this safe limit, the wires may		
	become overheated and may cause and brook the sirguit. A fuse is t	accident the c se fire. If a prop bus a safety d	urrent exceeds per fuse is there	this safe limit, the wires may in the circuit, it will blow off		
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	(c) Name the instrument used for the following:				
	(i) To record the distance covered by a vehicle.				
	(ii) To indicate the speed of a running vehicle.				
39	A rainbow is not a chemical reaction but is an optical illusion.Newton cut a pinhole in his window shade to let in sunlight, which showed up on his wall as a round illuminated area. Refracted by a prism, it turned into an oblong area with a rainbow of colours. This shows that white light is a combination of seven separate colours.	4			
	<ul> <li>(a) If you make the light from a laser torch to fall on a prism, you are unable to observe the band of seven colours. Give reason.</li> <li>(b) Draw the diagrams representing converging and diverging light rays using appropriate lenses.</li> </ul>				
	(c) What acts as a prism, during formation of a rainbow?				
	OR				
	(d) Name the term given to the band of seven colours of rainbow.				
*****THE END****					