

INDIAN SCHOOL AL WADI AL KABIR

MID TERM EXAMINATION(2024-25)

CLASS: VII Sub: SCIENCE MAX.MARKS: 80

DATE: 22/09/2024 Set -I TIME: 2 ½ HOUR

SECTION A (1X20=20)

1	a) Nutrition	1
1	a) Nutrition	1
2	c) White fabric	1
3	c) Molars and premolars	1
4	d) Colourless and pink	1
5	d)Not flow from iron ball to water or from water to iron ball.	1
6	a)The test tube got hot.	1
7	c) Convection	1
8	b)Acid rain	1
9	c) 1.6 s	1
10	d) Time —	1
11	b) Odometer	1
12	c) Spiracles	1
13	a) No, as other coloured leaves also have chlorophyll and can perform photosynthesis.	1
14	b) 15-18 times in a minute	1
15	a)Due to anaerobic respiration in yeast.	1
16	c) In the presence of sunlight, chlorophyll-containing cells of leaves use carbon	1
	dioxide and water to synthesise carbohydrates	
17	(iii) A is true but R is false.	1
18	iv) A is false but R is true.	1
19	i) Both A and R are true and R is the correct explanation of the assertion.	1
20	ii) Both A and R are true but R is not the correct explanation of the assertion	1
	SECTION B (2X6=12)	
21	a) Growing crops inside large greenhouses provides the required temperature for crops and protects crops from wind, cold, insects, etc.	1
	b) A-guard cells B-stomatal opening	1/2 + 1/2
22	a) Copper is a better conductor of heat than stainless steel.	1
	b) Two bodies should be in the solid state, they should be in direct contact with each other and their temperatures should be different. (Any two points)	1/2 + 1/2

23	a) Pseudopodia are used by amoeba to capture their prey and also for movement.	1
	b) (i) Villi are small finger-like projections present in the inner walls of the small intestine. (ii) Its function is to increase the surface area of the small intestinal wall to absorb the digested food.	1/2 + 1/2
24	digested food. a) Indicators are dyes (substances) that change their colour when it is in an acidic and basic solution.	1
	b) Great care should be taken while handling laboratory acids and bases because these are corrosive and can cause skin irritation and burns.	1
25	Extreme position Mean position Or Centre position	1+1(draw and label)
26	 a) During drowsiness, our breathing rate slows down. The lungs do not get enough oxygen from the air, resulting in yawning. Yawning brings extra oxygen into the lungs and removes more carbon dioxide and thus, helps us to stay awake. b) A-Trachea or wind pipe B -Lungs 	1/2 + 1/2
	SECTION C(3X7=21)	
27	a) ACIDS- Acids have a sour taste. They are corrosive in nature. They turn blue litmus red. Acids are soluble in water. Heat is produced when a strong acid is mixed with water. BASES- Bases are slippery or soapy to touch.	Any two 1+1
	They taste bitter. They turn red litmus blue. They react with acids to produce salt and water.	

	b) When an ant bites, it injects formic acid contains zinc carbonate which is basic in natuskin to neutralise the effect of formic acid.		1
28	a) The presence of starch in leaves can be tested boil the leaf in water and then we remove the composition boiling it in alcohol. Then add 2 drops of iodinal blue then it indicates the presence of starch. b) The pitcher plant is green and carries requirement of Pitcher plants is provided by the Pitcher plants have a pitcher-like structure when the transfer of the leaf forms a lid that can open when an insect lands in the pitcher, the lid of	hlorophyll from the leaf by e solution, if its colour changes to out photosynthesis. The nitrogen e insects that these plants capture. Lich is a modified part of the leaf. or close the mouth of the pitcher. closes and the trapped insect gets	11/2
	entangled into the hair inside the pitcher. The juices secreted in the pitcher.	insect is digested by the digestive	1 ½
29	a) Effect of carbon dioxide on lime water/ Ca	arbon dioxide is given out during	1
	exhalation. b) The lime water in test tube 'B' turns milky be unchanged. It is because carbon dioxide preselime water in test tube 'B' and the lime water formation of calcium carbonate.	ent in the exhaled air, mixes with	2
30	a) A-Sundial B -Sand clock b) Speed of the train = 200 km/h. Time taken = 12 h. Distance covered = Speed x Tir = 200 x 12 =		1/2 + 1/2 1/2 1/2+ 1/2+1/2
31	a) SEA BREEZE - During the day, the land heats up much faster than seawater. So, the air above the land becomes hotter and rises up. The cool air above the sea surface moves towards land to fill the space. This flow of air from the sea towards the land is called sea breeze . (b) Plastic is a bad conductor of heat due to which the heat from the cooker does not flow to its handle and we can hold it easily.		2
32	Milk Teeth They grow in a child from the age of 6 months to 8 years They are 20 in number They shed off and are replaced by permanent set of teeth	Permanent Teeth They are found in adult human beings They are 32 in number Once shed, they cannot be replaced naturally	2
	They do not contain molars	They contain 6 molars in each jaw	

	b) Cellulose is a carbohydrate that can be digested only by ruminants and not by	1/ + 1/
	humans. This is because humans lack the cellulose-digesting bacteria in their stomachs.	$\frac{1}{2} + \frac{1}{2}$
	Ruminants have a large sac-like structure between small and large intestines called	
	caecum where the food containing cellulose is digested by the action of certain	
	bacteri	
33	a) Cuscuta doesn't have chlorophyll. It takes readymade food from the plant on	1
	which it climbs. It deprives its host of valuable nutrients.	
	b) i) Saprotrophic nutrition.	1/2
	ii) The saprophytes secrete digestive juices on the decaying and dead matter.	11/2
	These juices convert the matter into a solution. The saprophytes then absorb the	
	nutrients from the solution	
2.4	SECTION D(5X3=15)	1 . 1
34	a)	1+1 (drawing,
		Labelling)
		Labelling)
	Nucleus	
	2000	
	rood vacuole	
	h) Amarka fanda an anna mianasania anganisma Whan it sangas food it	11/
	b) Amoeba feeds on some microscopic organisms. When it senses food, it pushes out pseudopodia around the food particle and engulfs it. The food	1½
	becomes trapped in a food vacuole. Digestive juices are secreted into the food	
	vacuole. They act on the food and break it down into simpler substances.	
	Gradually, digested food is absorbed and used for growth, maintenance, and	
	multiplication.	11/2
	c) When digestion is completed, carbohydrates get broken into glucose, fats into	
	fatty acids, and glycerol and proteins into amino acids.	
35	a) (i) SIMILARITIES:	1/2 +1/2
	i) Both thermometers consist of long narrow uniform glass tubes.	
	ii) Both have a bulb at one end with mercury.	
	iii) Both use the Celsius scale on the glass tube.	
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	LABORATORY THERMOMETER	CLINICAL THERMOMETER	½ x 4=2
	i) The range of a laboratory thermometer is generally from -10°C to 110°C	i) The range of a clinical thermometer is from 35°C to 42°C	72 X 4=2
	ii) Kink is absent	ii) Kink is present	2
	iii)It is used for measuring the temperature of other objects	iii)It is used only for measuring human body temperature	
		r will have a layer of air trapped in between at to escape to the cold surroundings and	
36			
	particles. These particles get past the harmonic of the cavity which results in sneezing.		1
	During heavy exercise, our body does no energy. To get the additional energy, the r	ne accumulation of lactic acid in the muscles. It get enough oxygen to produce the required muscle cells respire anaerobically. During this occurs to produce lactic acid which on	2
	b) As we take in the air (inhalation) it f	_	
	up and outwards while the diaphragm r		1 +1
	The lungs while releasing air (exhalation		
	and inward while the diaphragm moves SECTION E (3)		
37	· ·	anner they use carbon dioxide. They need	1+1+2
	nitrogen in soluble form.		
		rom the soil, their amounts in the soil keep ontain plant nutrients that need to be added	
	from time to time to enrich the soil.	ontain plant nutrients that need to be added	
		ring in the roots of legumes like peas and	
	<u> </u>	en into a usable form for plants. In return,	
		food and shelter, forming a symbiotic	
38	relationship. i) Bases like quick lime (calcium oxide	a) or slaked lime (coloium hydrovida)	$\frac{1}{2} + \frac{1}{2}$
20	ii) Organic matter releases acids that no	· · · · · · · · · · · · · · · · · · ·	/2 T 72
		tain acids. If they are allowed to flow into	1
		h and other organisms. The factory wastes	
	are, therefore, neutralised by adding ba	sic substances.	2
39	a) The advantage of distance-time graph	phs is that they give information	1

about the nature of the motion of an object like uniform or non-	
uniform motion. The motion of an object can be represented by its	
distance-time graphs.	1
b) A, The steeper the graph's slope, the faster the object moves,	
c) If a body covers unequal distances in equal intervals of time, then its motion is	
called non-uniform motion	2