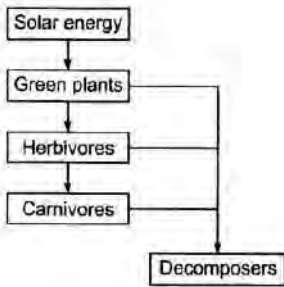


KENDRIYA VIDYALAYA SANGATHAN, LUCKNOW REGION**MID TERM EXAMINATION – 2023 – 24****CLASS 7TH – SCIENCE – SET 1 – MARKING SCHEME**

SECTION A		
Q1.	c) Photosynthesis	1
Q2.	b) Bile juice OR a) Acidic Medium	1
Q3.	d) Copper is a better conductor of heat than the stainless steel	1
Q4.	a) Organic matter	1
Q5.	b) Mercury	1
Q6.	d) Calcium carbonate	1
Q7.	b) Spiracles OR a) Lungs	1
Q8.	d) depends on source	1
Q9.	a) acidic medium	1
Q10.	b) chemical change	1
SECTION B		
Q11.	Saprophytes acquire nutrients from dead and decaying matter Example: Fungi (or any other) Parasites live on or in a host and get its food at the expense of its host. Example: roundworm (or any other) OR Some organisms live together and share both shelter and nutrients. This relationship is called symbiosis. For example - Lichens (or any other)	2
Q12.	a) small intestine b) mouth c) stomach d) small intestine	$\frac{1}{2}$ X 4
Q13.	The finger like projections in the inner walls of the small intestine is called villi. These are found in small intestine. Function: The villi increase the surface area for absorption of the digested food. OR Mucous protect the inner lining of the stomach from the hydrochloric acid.	2
Q14.	Conductors : Iron and copper insulators : Plastic and wood	$\frac{1}{2}$ X 4
Q15.	a) Land breeze blows during ---- (iv) night b) Sea breeze blows during ---- (iii) day c) Dark coloured clothes are preferred during ---- (ii) winter d) Light coloured clothes are preferred during ----- (i) summer	$\frac{1}{2}$ X 4
Q16.	It is basic in nature.	2
Q17.	a) F b) F	1 X 2

Q18.	When a candle burns, both physical and chemical changes occur: (i) Physical change: melting of wax, vapourisation of melted wax. (ii) Chemical change: Burning of vapours of wax to give carbon dioxide, heat and light. LPG is another example in which physical change occurs when LPG comes out of cylinder and is converted from liquid to gaseous state and a chemical change occurs when gas burns in air.	2
Q19.	In coastal areas, the amount of moisture present in the air or humidity is higher than in the deserts. Hence, rusting of iron objects is faster in coastal areas than in deserts. OR (i) By applying a coat of paint or grease. (ii) By depositing a layer of a metal like chromium or zinc on iron /Galvanisation.	2
Q20.	a) The cramps occur when muscle cells respire anaerobically. The partial breakdown of glucose produces lactic acid. The accumulation of lactic acid causes muscle cramps. b) We get relief from cramps after a hot water bath or a massage. Hot water bath or massage improves circulation of blood. As a result, the supply of oxygen to the muscle cells increases which results in the complete breakdown of lactic acid into carbon dioxide and water.	2

SECTION C

Q21.	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Indicators-</th> <th>Blue litmus</th> <th>Turmeric</th> </tr> </thead> <tbody> <tr> <td>1. Vinegar</td> <td>Red</td> <td>No change/Yellow</td> </tr> <tr> <td>2. Soap solution</td> <td>No change/ Blue</td> <td>Reddish Brown</td> </tr> <tr> <td>3. Pure water</td> <td>No change/ Blue</td> <td>No change/ Yellow</td> </tr> </tbody> </table> <p style="text-align: center;">OR</p> <p>(i) In test tube A - There is no change in colour. (ii) In test tube B - China rose indicator turns to dark pink (magenta) (iii) In test tube C- China rose indicator turns to green.</p>	Indicators-	Blue litmus	Turmeric	1. Vinegar	Red	No change/Yellow	2. Soap solution	No change/ Blue	Reddish Brown	3. Pure water	No change/ Blue	No change/ Yellow	1X3
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Q22.	A- Ribs B- Trachea C- Pharynx D- Diaphragm E- Lungs F- Nasal passage	½ X 6												
Q23.	The reaction between baking soda and lemon juice can be given as below: Lemon juice + Baking soda \longrightarrow CO ₂ (bubbles) + Other substances (Citric acid) (Sodium hydrogen carbonate) (Carbon dioxide) It is a chemical change.	3												
Q24.	 <p style="text-align: center;">OR</p> <p>The mechanism of preparing the food from simple inorganic material by an organism is called autotrophic nutrition whereas in heterotrophic nutrition organism depends on other organisms for food.</p>	3												

Q25.	<p>Similarity: The digestive juices in amoeba are secreted into food vacuole and in human beings the digestive juices are secreted in stomach and small intestine. Then the juices convert complex food into simpler soluble and absorbable substances. ‘</p> <p>Difference: Amoeba captures the food with help of pseudopodia and engulf it. In human beings food is taken by the mouth.</p>	3
SECTION D		
Q26.	<p>a) In case B, the pin P will fall before the pin Q.</p> <p>b) The heat will reach pin P first due to conduction of heat. In case A, the heat travels in both the directions and pins P and Q will fall simultaneously.</p> <p>c) The process by which heat is transferred from the hotter end to the colder end of object is known as conduction.</p> <p>Example of conductor- aluminum / iron / copper (any one).</p> <p style="text-align: center;">OR</p> <p>a. Clinical thermometer.</p> <p>b. Two precautions that we need to take while using clinical thermometer are:</p> <ul style="list-style-type: none"> • It should be washed before and after use, preferably with an antiseptic solution. • Ensure that before use the mercury level is below 35⁰C. <p>c. The range of a laboratory thermometer is generally from -10⁰ C to 110⁰ C.</p> <p>d. Digital thermometer.</p> <p>e. The Kink near the bulb prevents the mercury from falling on its own in a clinical thermometer.</p>	<p>1</p> <p>2</p> <p>2</p> <p>1</p> <p>2</p> <p>2</p>
Q27.	<p>i) d) All of the above</p> <p>ii) d) Proteins</p> <p>iii) d) Bacteria</p> <p>iv) Desert plants have scaly or spin leaves as compared to other normal plants to reduce water loss by transpiration.</p> <p>v) Certain bacteria present in soil convert gaseous nitrogen into more useable form and release it into soil and also nitrogen containing fertilizers are added to soil to fulfil nitrogen requirements of plants.</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p>
Q28.	<p>i) d) All of the above</p> <p>ii) a) Insect</p> <p>iii) d) Frog</p> <p>iv) The small opening on the sides of a cockroach’s body is called as spiracle.</p> <p>v) One touching the skin of the earthworm one would feel it moist and slimy.</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p>