



OSDAV Public School, Kaithal  
Half yearly Exams (2024-25)  
Class: VII  
Subject: Science

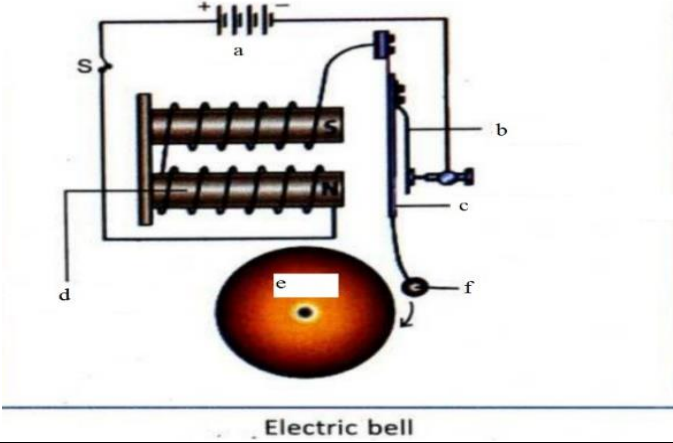
SET-A

Time: 2 hrs 20 min.

M.M. :60

General Instructions: - All questions are compulsory.

Q.N.	Questions	Marks
1.	To survive plant roots need - a) CO <sub>2</sub> b) Chlorophyll      c) O <sub>2</sub> d) Sunlight	1
2.	Name the evergreen coniferous tree that reaches height from 40m to 50m. a) Deodar      b) Ashoka      c)      d) Sal	1
3.	The process of raw and dyed fibres twisted together to make thread: a) Shearing      b) Scouring      c) Sorting      d) Spinning	1
4.	Lion Tailed Macaque gets its name from: a) Its roar like a lion      b) The colour of its fur c) The tassel at the end of its tail      d) Its eating habits	1
5.	A fuse wire is a wire of - a) High resistivity and Low melting point b) High resistivity and High melting point c) Low resistivity and Low melting point d) Low resistivity and High melting point	1
6.	Which of the following is an insectivorous plant? a) Pitcher plant      b) leguminous plant      c) Green Plant      d) Amarbel	1
7.	Rhizobium bacteria help leguminous plants by converting atmospheric: a) Oxygen      b) Nitrogen      c) Carbon Dioxide      d) Hydrogen	1
8.	Aerobics respiration taken place in- a) Presence of O <sub>2</sub> b) Presence of CO <sub>2</sub> c) Absence of O <sub>2</sub> d) Absence of CO <sub>2</sub>	1
9.	Water management is primarily done by a) Government Bodies      b) Non-Profit Organisation c) Private Organisation      d) Civics Agencies	1
10.	Prawns respire through their a) Lungs      b) Gills      c) Trachea      d) Skin	1
	Q no 11,12 are assertion reason questions a) Both Assertion and Reasoning are true, and Reasoning is the correct explanation of Assertion. b) Both Assertion and Reasoning are true, but Reasoning is not the correct explanation of Assertion. c) Assertion is true, but Reasoning is false. d) Both Assertion and Reasoning are false.	
11.	<b>Assertion:</b> Photosynthesis rate is greater than respiration rate <b>Reasoning:</b> CO <sub>2</sub> taken in and O <sub>2</sub> gives out.	1
12.	<b>Assertion:</b> The canopy layer of the forest receives the most sunlight. <b>Reasoning:</b> The canopy layer consists of the tops of tall trees that form a dense cover, allowing limited sunlight to reach the lower layers.	1
13.	Mention any two adaptive features of Polar Beers help it to survive in frigid zone.	2
14.	Explain the relationship between the shapes of tree crown and their geographical location on earth.	2
15.	State any two precautions that can help avoid the “choking of Drains”	2
16.	Differentiate between Reeling and Dying.	2
17.	a) The leaf is called food factory of plant due to its role in photosynthesis. Explain its functions in this process.	1+1

	b) Describe the concept of extracellular digestion.	
18.	Name any two situations where electric fuses come into play.	2
19.	Name three types of secretions help in digestion of food in human and also explain their functions?	3
20.	Label the diagram 	3
21.	Describe the following terms <b>a)</b> Water table <b>b)</b> precipitation <b>c)</b> Meteorology	3
22.	Describe the ways forest contribute to maintaining ecological balance s, supporting economics and protecting environment.	3
23.	Give the reason of following <b>a)</b> Some monkeys have long prehensile tails. <b>b)</b> Toco Toucan have large beak. <b>c)</b> Big cats have sharp teeth.	3
24.	a) Discuss the benefits and drawback of heating effect of current. b) Draw the symbol used to represents an electric switch.(ON and OFF position)	3
25.	Read the paragraph and answer the following In a serene freshwater lake, students conducted an experiment to explore the process of respiration in aquatic animals, focusing on fish. They aimed to understand how fish extract oxygen from water to survive and how factors like temperature and water quality can impact their respiration rates. <b>a)</b> What is respiration? <b>b)</b> Specify the two additional by-products, apart from energy, that are released during the process of respiration. <b>c)</b> List any two applications of the anaerobic respiration. <b>d)</b> Which gas is responsible for change in the colour of lime water.	4
26.	Read the paragraph and answer the following Questions: Temperature, in such regions, has an average value of 20-25°C and varies little throughout the year. The average temperatures, of the three warmest, and the three coldest months, do not differ by more than 5°C. In India, these forests are found in Western Ghats and Assam. These forests are home to animals like monkeys, apes, gorillas, lions, tigers, lizards, elephants, leopards etc. <b>a)</b> Why do tropical forests have a large population of animals? <b>b)</b> Write one adaptive feature of red eyed frogs. <b>c)</b> Name the largest rainforest of the world. <b>d)</b> How do monkeys adapt themselves in these forests?	4
27.	State the various process involved in the nutrition of ruminant through a diagram.	5
28.	<b>a)</b> Describe an activity to show that exhaled air contains CO <sub>2</sub> <b>b)</b> Describe the changes takes place i) Around the ribcages      ii) Diaphragm      iii) Chest cavity during inspiration	2+3



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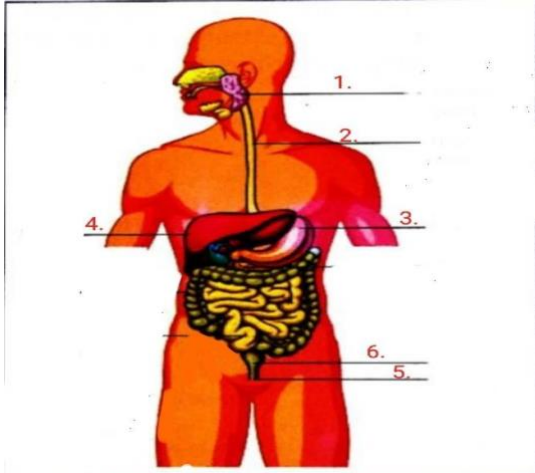
SET-B

Time: 2 hrs 20 min.

M.M. :60

General Instructions: -All questions are compulsory.

Q.N.	Questions	Marks
1.	Respiration helps in a) Locomotion    b) Digestion    c) Absorption    d) Obtaining Energy	1
2.	Name the tree prized for its beautiful foliage and flowers a) Deodar    b) Ashoka    c) Amaltas    d) Sal	1
3.	The process of removing fleece along with a very thin layer of dead skin of sheep a) Shearing    b) Scouring    c) Sorting    d) Spinning	1
4.	The average weather of a place taken over a long period of 20-25 years a) Climate    b) temperature    c) wind    d) Humidity	1
5.	A filament is a wire of- a) High resistivity and Low melting point b) High resistivity and High melting point c) Low resistivity and Low melting point d) Low resistivity and High melting point	1
6.	Which of the following does NOT show Saprotrophic nutrition? a) Fungi    b) Deodar    c) mushroom    d) Bread Mould	1
7.	Changes take place in rib cages during inhalation a) Moves Upward and Outward    b) Moves Downward and Inward c) Moves Upward and Inward    d) Moves Downward and Outward	1
8.	One of the important factors that lead to a scarcity of water is- a) Excessive rain fall    b) afforestation c) processing of sea water    d) deforestation	1
9.	During anaerobic respiration in absence of oxygen which substance is produced a) Lactic acid    b) Glucose    c) water    d) CO <sub>2</sub>	1
10.	Crabs respire through their- a) Lungs    b) Gills    c) Trachea    d) Skin	1
	Q no 11,12 are assertion reason questions a) Both Assertion and Reasoning are true, and Reasoning is the correct explanation of Assertion. b) Both Assertion and Reasoning are true, but Reasoning is not the correct explanation of Assertion. c) Assertion is true, but Reasoning is false. d) Both Assertion and Reasoning are false.	
11.	<b>Assertion:</b> Photosynthesis rate is equals to respiration rate <b>Reasoning:</b> There is no net intake or release of either CO <sub>2</sub> or O <sub>2</sub> .	1
12.	<b>Assertion:</b> The understory layer of the forest receives the most sunlight. <b>Reasoning:</b> The understory layer consists of the tops of tall trees that form a dense cover, allowing limited sunlight to reach the lower layers.	1
13.	Mention any two adaptive features of Penguins help it to survive in frigid zone.	2
14.	Analyse the multifunctional roles of an elephant's trunk in its daily activities and survival strategies. (Any Two)	2
15.	State any two ways of saving water at home.	2
16.	Differentiate between Sheering and Scouring.	2
17.	Explain the biochemical process responsible for sweet taste that develops when chewing rice or bread for an extending period.	2

18.	Describe the role of hydrochloric acid and mucus in stomach.	2
19.	<b>a)</b> Discuss the benefits and drawback of heating effect of current. <b>b)</b> Draw the symbol used to represents a Plug Key (On and Off position).	3
20.	Label the diagram 	3
21.	Describe the following terms <b>a)</b> Wind <b>b)</b> Sewage System <b>c)</b> Humidity	3
22.	Briefly describe the likely consequences of indiscriminately cutting down of trees.	3
23.	Give the reason of following <b>a)</b> Polar bears have white fur. <b>b)</b> Red eyed Frog have sucker pads. <b>c)</b> Lion tailed macaque have cheeks pouches	3
24.	Name three types of secretions help in digestion of food in human and also explain their functions?	3
25.	Read the paragraph and answer the following In a serene freshwater lake, students conducted an experiment to explore the process of respiration in aquatic animals, focusing on fish. They aimed to understand how fish extract oxygen from water to survive and how factors like temperature and water quality can impact their respiration rates. <b>a)</b> What is respiration? <b>b)</b> Specify the two additional by-products, apart from energy, that are released during the process of respiration. <b>c)</b> List any two applications of the anaerobic respiration. <b>d)</b> Which gas is responsible for change in the colour of lime water	4
26.	Read the paragraph and answer the following In a science fair, a group of enthusiastic seventh-grade students presented an experiment that demonstrated the fascinating world of electromagnets and their real- world applications. Their project aimed to showcase how electromagnets work and how they can be used in various devices. <b>a)</b> What is an electromagnet, and how does it differ from a permanent magnet? <b>b)</b> How does the number of wire coils affect the strength of the electromagnet? <b>c)</b> Can you think of any real-life devices or applications that use electromagnets? Any 2 <b>d)</b> On which effect of current MCB works?	4
27.	Explain the ingestion and egestion of food in amoeba through a diagram.	5
28.	<b>a)</b> Describe the activity to show that respiration produces heat energy. <b>b)</b> Describe the Life Cycle of Silk Moth and also name the two leading countries in global silk production.	2+3



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General Instructions: -

I. All questions are compulsory.

Q.N.	Questions	Marks
1.	To survive plant roots need - a) CO <sub>2</sub> b) Chlorophyll    c) O <sub>2</sub> d) Sunlight	1
2.	Name the evergreen coniferous tree that reaches height from 40m to 50m. a) <b>Deodar</b> b) Ashoka    c)    d) Sal	1
3.	The process of raw and dyed fibres twisted together to make thread: a) Shearing    b) Scouring    c) Sorting    d) <b>Spinning</b>	1
4.	Lion Tailed Macaque gets its name from: a) Its roar like a lion    b) The colour of its fur c) <b>The tassel at the end of its tail</b> d) Its eating habits	1
5.	A fuse wire is a wire of - a) <b>High resistivity and Low melting point</b> b) High resistivity and High melting point c) Low resistivity and Low melting point d) Low resistivity and High melting point	1
6.	Which of the following is an insectivorous plant? a) <b>Pitcher plant</b> b) leguminous plant    c) Green Plant    d) Amarbel	1
7.	Rhizobium bacteria help leguminous plants by converting atmospheric: a) Oxygen    b) <b>Nitrogen</b> c) Carbon Dioxide    d) Hydrogen	1
8.	Aerobics respiration taken place in- a) <b>Presence of O<sub>2</sub></b> b) Presence of CO <sub>2</sub> c) Absence of O <sub>2</sub> d) Absence of CO <sub>2</sub>	1
9.	Water management is primarily done by a) Government Bodies    b) Non-Profit Organisation    c) Private Organisation d) <b>Civic Agencies</b>	1
10.	Prawns respire through their a) Lungs    b) <b>Gills</b> c) Trachea    d) Skin	1
11.	<b>Assertion:</b> Photosynthesis rate is greater than respiration rate during day time <b>Reasoning:</b> CO <sub>2</sub> taken in and O <sub>2</sub> gives out <u>Options:</u> a) Both Assertion and Reasoning are true, and Reasoning is the correct explanation of Assertion. <b>B) Both Assertion and Reasoning are true, but Reasoning is not the correct explanation of Assertion.</b> c) Assertion is true, but Reasoning is false. d) Both Assertion and Reasoning are false.	1
12.	<b>Assertion:</b> The canopy layer of the forest receives the most sunlight.	1

	<p><b>Reasoning:</b> The canopy layer consists of the tops of tall trees that form a dense cover, allowing limited sunlight to reach the lower layers.</p> <p><u>Options:</u></p> <p><b>a) Both Assertion and Reasoning are true, and Reasoning is the correct explanation of Assertion.</b></p> <p><b>b) Both Assertion and Reasoning are true, but Reasoning is not the correct explanation of Assertion.</b></p> <p><b>c) Assertion is true, but Reasoning is false.</b></p> <p><b>d) Both Assertion and Reasoning are false.</b></p>	
13.	<p>Mention any two adaptive features of Polar Bears help it to survive in frigid zone.</p> <p><b>1. Polar bear have white fur so that they are not easily visible in snowy white background</b></p> <p><b>2. And insulating layer of blubber keeps them warm in winter</b></p>	2
14.	<p>Explain the relationship between the shapes of tree crown and their geographical location on earth.</p> <p><b>1. If a tree is located near the equator the noon time sun is almost directly over the head all the year round. Tall tree with flat tree tops are very common in this part</b></p> <p><b>2. Near the Arctic Circle the sun is never directly overhead and is usually quite low in the sky. Trees in this part of the world tend to be cone shaped</b></p>	2
15.	<p>State any two precautions that can help avoid the “choking of Drains”</p> <p><b>Do not throw solid like leftover food, leaves, cotton ,polythene bags etc in the drain</b></p>	2
16.	<p>Differentiate between Reeling and Dyeing.</p> <p><b>Reeling -the process of taking outside thread from the cocoon</b></p> <p><b>Dyeing -the process of adding colour to the fibre</b></p>	2
17.	<p>a) The leaf is called food factory of plant due to its role in photosynthesis. Explain its functions in this process.</p> <p><b>Leaves have a green colour pigment called chlorophyll it helps leaves to capture the energy of the sunlight is energy is used by the plant to synthesize their food</b></p> <p>b) Describe the concept of extracellular digestion.</p> <p><b>The food gets digested outside the cell or sometimes even outside the body of the organism this type of digestion is called extracellular digestion</b></p>	1+1
18.	<p>Name any two situations where electric fuses come into play.</p> <p><b>1. Short circuiting</b></p> <p><b>2. insulation breakdown</b></p>	2
19.	<p>Name three types of secretions help in digestion of food in human and also explain their functions?</p> <p><b>1. Secretion from liver-bile juice help in digestion of fat</b></p> <p><b>2. Secretion from pancreas- pancreatic juice helps in digestion of the carbohydrates protein and fats</b></p> <p><b>3. Secretion from small intestine-intestinal juice helps in digestion of carbohydrates proteins and fats</b></p>	3
20.	Label the diagram	3

	<p style="text-align: center;">Electric bell</p>	
21.	<p>Describe the following terms</p> <p>a) Water table-<b>the upper there of groundwater is called water table</b></p> <p>b) precipitation-<b>precipitation is produced when the droplets and the crystal incloud grow large enough to fall on to the ground</b></p> <p>c) Meteorology-<b>it is the branch of science which deals with whether and weather forecasting</b></p>	3
22.	<p>Describe the ways forest contribute to maintaining ecological balance , supporting economics and protecting environment.</p> <p><b>Maintaining the ecological balance-forest maintain and improve the moisture content of that mosphere</b></p> <p><b>Supporting economics-forest are the most important source of timber and raw material for paper industries</b></p> <p><b>Protecting environment-forest are the habitat of living organisms</b></p>	3
23.	<p>Give the reason of following</p> <p>1. Some monkeys have long prehensile tails. <b>For grasping branches</b></p> <p>2. Toco Toucan have large beak. <b>Help in picking the fruit</b></p> <p>3. Big cats have sharp teeth. <b>To tear the flesh</b></p>	3
24.	<p>Discuss the benefits and drawback of heating effect of current.</p> <p><b>Benefits of heating effect of current-electric geyser ,electric iron etc</b></p> <p><b>Drawbacks of heating effect of current-unwanted loss of electric current</b></p> <p>b) Draw the symbol used to represents an electric switch.(ON and OFF position)</p> <p><b>Refer to page number 248</b></p>	3
25.	<p>Read the paragraph and answer the following</p> <p>In a serene freshwater lake, students conducted an experiment to explore the process of respiration in aquatic animals, focusing on fish. They aimed to understand how fish extract oxygen from water to survive and how factors like temperature and water quality can impact their respiration rates.</p> <p>a) What is respiration? <b>The process in which organisms convert sugar into biochemical energy using oxygen</b></p> <p>b) Specify the two additional by-products, apart from energy, that are released during the process of Respiration <b>water and carbon dioxide</b></p>	4

	<p>c) List any two applications of the anaerobic respiration. <b>Formation of idli ,dosa alcoholic beverages, cake, pastry etc</b></p> <p>d) Which gas is responsible for change in the colour of lime water. <b>Carbon dioxide</b></p>	
26.	<p>Read the paragraph and answer the following Questions:  Temperature, in such regions, has an average value of 20-25°C and varies little throughout the year. The average temperatures, of the three warmest, and the three coldest months, do not differ by more than 5°C. In India, these forests are found in Western Ghats and Assam. These forests are home to animals like monkeys, apes, gorillas, lions, tigers, lizards, elephants, leopards etc.</p> <p>a) Why temperature forests have a large population of animals? <b>Because of the thick vegetation and moderate temperature</b></p> <p>b) Write one adaptive feature of red eyed frogs. <b>Sucker pads</b></p> <p>c) Name the largest rainforest of the world. <b>Amazon</b></p> <p>d) How do monkeys adapt themselves in these forests? <b>Long prehensile tails</b></p>	4
27.	<p>State the various process involved in the nutrition of ruminant through a diagram.  <b>Refer to page number 23 and 24</b></p>	5
28.	<p>a) Describe an activity to show that exhaled air contains CO<sub>2</sub></p> <p><b>Take a drinking straw and a test tube containing pressure prepared lime water place one end of the straw in the lime water and blow the exhaled air gently at the other end of the straw the observe lime water turns milky due to the presence of carbon dioxide in exhaled air</b></p> <p>b) Describe the changes takes place</p> <ol style="list-style-type: none"> <li>i. Around the ribcages <b>muscles around the rib cage contract lifting the ribs upward and outward</b></li> <li>ii. Diaphragm <b>lowering the dome of diaphragm it form nearly flat sheet</b></li> <li>iii. Chest cavity during inspiration <b>-chest cavity expand</b></li> </ol>	2+3





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SET-B

Time: 2 Hrs 20 Minutes

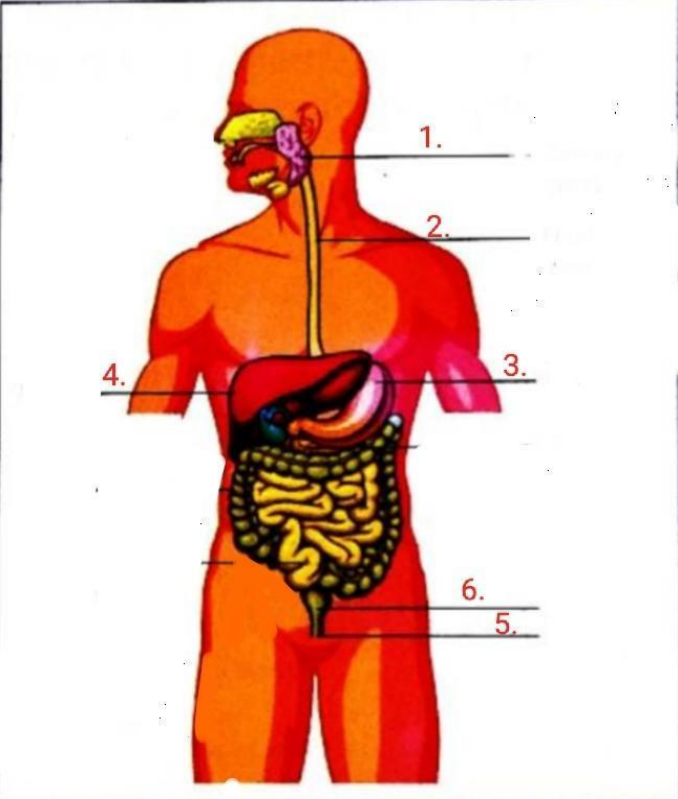
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General Instructions: -

I. All questions are compulsory.

Q.N.	Questions	Marks
1.	Respiration helps in a) Locomotion    b) Digestion    c) Absorption <b>d) Obtaining Energy</b>	1
2.	Name the tree prized for its beautiful foliage and flowers a) Deodar <b>b) Ashoka</b> c) Amaltas    d) Sal	1
3.	The process of removing fleece along with a very thin layer of dead skin of sheep a) Shearing    b) Scouring    c) Sorting <b>d) Spinning</b>	1
4.	The average weather of a place taken over a long period of 20-25 years a) <b>Climate</b> b) temperature    c) wind    d) Humidity	1
5.	A filament is a wire of- a) <b>High resistivity and Low melting point</b> b) High resistivity and High melting point c) Low resistivity and Low melting point d) Low resistivity and High melting point	1
6.	Which of the following does NOT show Saprotrophic nutrition? a) Fungi    b) <b>Dodder</b> c) mushroom    d) Bread Mould	1
7.	Changes take place in rib cages during inhalation a) <b>Moves Upward and Outward</b> b) Moves Downward and Inward c) Moves Upward and Inward d) Moves Downward and Outward	1
8.	One of the important factors that lead to a scarcity of water is- a) Excessive rain fall    b) afforestation    c) processing of sea water d) <b>deforestation</b>	1
9.	During anaerobic respiration in absence of oxygen which substance is produced a) <b>Lactic acid</b> b) Glucose    c) water    d) CO <sub>2</sub>	1
10.	Crabs respire through their- a) Lungs    b) <b>Gills</b> c) Trachea    d) Skin	1
11.	<b>Assertion:</b> Photosynthesis rate is equals to respiration rate during day time <b>Reasoning:</b> There is no net intake or release of either CO <sub>2</sub> or O <sub>2</sub> <u>Options:</u> a) Both Assertion and Reasoning are true, and Reasoning is the correct explanation of Assertion. b) Both Assertion and Reasoning are true, but Reasoning is not the correct explanation of Assertion. c) Assertion is true, but Reasoning is false.	1

	<b>d) Both Assertion and Reasoning are false.</b>	
12.	<p><b>Assertion:</b> The understory layer of the forest receives the most sunlight.</p> <p><b>Reasoning:</b> The understory layer consists of the tops of tall trees that form a dense cover, allowing limited sunlight to reach the lower layers.</p> <p><u>Options:</u></p> <p>a) Both Assertion and Reasoning are true, and Reasoning is the correct explanation of Assertion.</p> <p>b) Both Assertion and Reasoning are true, but Reasoning is not the correct explanation of Assertion.</p> <p>c) Assertion is true, but Reasoning is false.</p> <p><b>d) Both Assertion and Reasoning are false.</b></p>	1
13.	<p>Mention any two adaptive features of Penguins help it to survive in frigid zone.</p> <p><b>Peddle like feet and streamline body helps the penguin to swim under the water</b></p>	2
14.	<p>Analyse the multifunctional roles of an elephant's trunk in its daily activities and survival strategies. (Any Two)</p> <p><b>Elephant use their trunk to drink water and sprinkle the water to all over their body</b></p> <p><b>Elephant use their trunk for grasping low growing shrubs and other food materials</b></p>	2
15.	<p>State any two ways of saving water at home.</p> <p><b>1.Get the leaking taps repaired immediately</b></p> <p><b>2.Turn off the tap while brushing teeth</b></p>	2
16.	<p>Differentiate between Sheering and Scouring.</p> <p><b>Sheering -the process of removal of the fleece from the animal</b></p> <p><b>Scouring -washing the sheared wool in hot water and detergent .</b></p>	2
17.	<p>Explain the biochemical process responsible for sweet taste that develops when chewing rice or bread for an extending period.</p> <p><b>The saliva contain digestive juices that break down starch to form sugar hence a starchy substance when chewed for sometime taste sweet</b></p>	2
18.	<p>Describe the role of hydrochloric acid and mucus in stomach.</p> <p><b>Hydrochloric acid kill the bacteria present in the food</b></p> <p><b>Mucus protect the inner lining of the stomach</b></p>	2
19.	<p>a) Discuss the benefits and drawback of heating effect of current.</p> <p><b>Benefits of heating effect of current-electric geyser ,electric iron etc</b></p> <p><b>Drawbacks of heating effect of current-unwanted loss of electric energy</b></p> <p>b) Draw the symbol used to represents a Plug Key (On and Off position) <b>refer to the page number 248</b></p>	3
20.	Label the diagram <b>refer to the page number 17</b>	3

			
21.	<p>Describe the following terms</p> <p>a) Wind <b>horizontal movement of air</b></p> <p>b) Sewerage System <b>-network of pipes brings clean water to our home and network of pipes take the wastewater or sewage away</b></p> <p>c) Humidity <b>-the amount of water vapours present in the atmosphere</b></p>	3	
22.	Briefly describe the likely consequences of indiscriminately cutting down of trees.	3	
23.	<p>Give the reason of following</p> <p>a) Polar bears have white fur. <b>Protect them from winter</b></p> <p>b) Red eyed Frog have sucker pads. <b>Helps them to provide the better traction on the wet leaves and branches</b></p> <p>c) Lion tailed macaque have cheeks pouches <b>for storing food</b></p>	3	
24.3	<p>Name three types of secretions help in digestion of food in human and also explain their functions?</p> <p><b>1.Secretion from liver-bile juice help in digestion of fat</b></p> <p><b>2.Secretion from pancreas- pancreatic juice helps in digestion of the carbohydrates protein and fats</b></p> <p><b>3.Secretion from small intestine-intestinal juice helps in digestion of carbohydrates proteins and fats</b></p>	3	
25.	<p>Read the paragraph and answer the following</p> <p>In a serene freshwater lake, students conducted an experiment to explore the process of respiration in aquatic animals, focusing on fish. They aimed to understand how fish extract oxygen from water to survive and how factors like temperature and water quality can impact their respiration rates.</p> <p>a) What is respiration? <b>The process in which organisms convert sugar into biochemical energy using oxygen</b></p> <p>b) Specify the two additional by-products, apart from energy, that are released during the process of Respiration <b>water and carbon dioxide</b></p>	4	

	<p>c) List any two applications of the anaerobic respiration. <b>Formation of idli ,dosa alcoholic beverages, cake, pastry etc</b></p> <p>d) Which gas is responsible for change in the colour of lime water. <b>Carbon dioxide</b></p>	
26.	<p>Read the paragraph and answer the following</p> <p>In a science fair, a group of enthusiastic seventh-grade students presented an experiment that demonstrated the fascinating world of electromagnets and their real- world applications. Their project aimed to showcase how electromagnets work and how they can be used in various devices.</p> <p>a) What is an electromagnet, and how does it differ from a permanent magnet? <b>Electromagnet is the temporary magnet that runs on electricity. It is different from permanent magnet as it works on electricity when the switch is on it behaves like a magnet or when the switch is off it will lose its magnetism</b></p> <p>b) How does the number of wire coils affect the strength of the electromagnet? <b>It increase its magnetism</b></p> <p>c) Can you think of any real-life devices or applications that use electromagnets? (Any 2) <b>Telephone diaphragm, loudspeakers ,electric bells etc</b></p> <p>d) On which effect of current MCB works? <b>Magnetic effect of current</b></p>	4
27.	<p>Explain the ingestion and egestion of food in amoeba through a diagram. <b>Refer to the page number 24</b></p>	5
28.	<p>a) Describe the activity to show that respiration produces heat energy. <b>Refer to the page number 105</b></p> <p>b) Describe the Life Cycle of Silk Moth and also name the two leading countries in global silk production. <b>A female silk moth lays 100 of eggs which are stored at a suitable temperature these eggs hatch to produce larva which are caterpillar or silkworm these larva are kept in teen boxes which they feed on fresh mulberry leaves for 25 to 30 days the caterpillar then Secrete a liquid the character figure fine fibre called cocoon.</b> <b>India and China are the two leading countries in global silk production</b></p>	2+3