



Time: 1 hr 20 min.

M.M.: 30

General Instructions: -

I. All questions are compulsory.

Q.No.	Questions	Marks
	<b>Multiple choice question</b>	
1	Identify the meaning of the prefix "sapro-." a) Light                      b) Water                      c) Rotten                      d) Growth	1
2	The eggs of a silk moth hatch into - a) Pupa                      b) Caterpillar                      c) Cocoon                      d) Adult moth	1
3	One of the important factors, that can lead to a scarcity of water, is- a) Excessive Rainfall b) deforestation c) afforestation d) Processing of a sea water	1
4	Silk thread is mainly made up of what type of biomolecule? a) Carbohydrate                      b) Fat                      c) Protein                      d) Cellulose	1
5	Name the plant tissue that transports water and minerals to other parts of the plant. a) Phloem                      b) Vessel                      c) Parenchyma                      d) Collenchyma	1
6	<b>Assertion: Leaves are called the food factories of the plant.</b> <b>Reason: The synthesis of food in plants occur in their roots.</b> (i) Both A and R are true and R is correct explanation of the assertion. (ii) Both A and R are true and R is not the correct explanation of the assertion. (iii) A is true but R is false. (iv) A is false but R is true.	1
7	Draw a pie chart to explain the percentage of water present in different forms on Earth.	2
8	Write the equation for photosynthesis.	2
9	Write the difference between shearing and scoring.	2
10	Write a short note on rearing of silkworms.	3
11	List any three factors responsible for the scarcity of water."	3
12	Mention any three ways to replenish nutrients in the soil.	3
13	<b>Read this case study carefully and answer the following questions.</b> <b>Riya, a curious student, decided to try a small experiment on her potted plant. She carefully applied a thin layer of Vaseline on both sides of one leaf and left the plant alone for a few days. To her surprise, all the other leaves stayed fresh and green, but the Vaseline-covered leaf slowly turned yellow and dropped off! Riya wondered: what could have caused this one leaf to die while the others stayed healthy?</b> 1. What important parts of the leaf might have been blocked by the Vaseline? 2. Describe the role of chlorophyll in plants. 3. Name the gases exchange during the process of photosynthesis. 4. Can you name the process that helps the other leaves stay healthy?"	4
14	(a) Woollen clothes keep us warm in winter explain? (b) Write in brief about the basic details and the role of the sewerage system.	2+3



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1	Identify the meaning of the prefix "photo-." a) Light                      b) Water                      c) Rotten                      d) Growth	1
2	The caterpillar covers itself with a fine fibre called - a) Pupa                      b) Caterpillar                      c) Cocoon                      d) Adult moth	1
3	Water management is primarily done by a) government bodies      b) civic agency                      c) agriculture                      d) industries	1
4	Name the country which produce wide varieties of silk. a) China                      b) Uzbekistan                      c) Indonesia                      d) India	1
5	Bread mould is an example of - a) saprotroph                      b) autotroph                      c) parasite                      d) insectivorous	1
6	<b>Assertion: There is no scarcity of drinking water.</b> <b>Reason: Three fourth part of earth is covered with water.</b> (i) Both A and R are true and R is correct explanation of the assertion. (ii) Both A and R are true and R is not the correct explanation of the assertion (iii) A is true but R is false (iv) A is false but R is true	1
7	Write raw material and products of photosynthesis.	2
8	Differentiate between reeling and dyeing of silk.	2
9	Draw a pie chart to explain the percentage of water present in different forms on Earth.	2
10	a). State the practical use of the <b>long and short</b> yarn threads obtained during the making of wool. b). Give the meaning of the term sorting.	2+1
11	State any three precautions that can help avoid the choking drains.	3
12	Give the reasons for the following a). Lichen is a living partnership between a fungus & an alga and this partnership is beneficial to both. b). Leaf is known as the food factory of plant.	2+1
13	<b>Read this case study carefully and answer the following questions.</b> <b>Riya, a curious student, decided to try a small experiment on her potted plant. She carefully applied a thin layer of Vaseline on both sides of one leaf and left the plant alone for a few days. To her surprise, all the other leaves stayed fresh and green, but the Vaseline-covered leaf slowly turned yellow and dropped off! Riya wondered: what could have caused this one leaf to die while the others stayed healthy?</b> 1. What important parts of the leaf might have been blocked by the Vaseline? 2. Describe the role of vessels in plants. 3. Write the difference between autotrophic and heterotrophic mode of nutrition. 4. Can you name the process that helps the other leaves stay healthy?"	4
14	(a). Provide a brief idea of how rainwater harvesting is practiced. (b). Write a short note on rearing of silkworms.	2+3



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7	Draw a pie chart to explain the percentage of water present in different forms on Earth. <b>Ans</b> —Page no.238 of book	2
8	Write the equation for photosynthesis.  carbon dioxide + water $\xrightarrow[\text{chlorophyll}]{\text{sunlight}}$ glucose + oxygen	2
9	Write the difference between shearing and scouring. <b>Ans</b> — <ul style="list-style-type: none"><li>• <b>Shearing</b>-The process of removal of the fleece of sheep along with a thin layer of dead skin is called shearing</li><li>• <b>Scouring</b>-The sheered fleece contains dirt and grease. It is the cleaned in large tanks with detergents in hot water. Suitable machines are also used for scouring</li></ul>	2
10	Write a short note on rearing of silkworms. <b>Ans</b> -- Rearing of silkworms: Silk moth is a large, white insect. A female silk moth lays hundreds of eggs which are stored at a suitable temperature. These eggs hatch to produce larvae which are called caterpillars or silkworms. These larvae are kept in clean boxes where they feed on fresh mulberry leaves for 25-30 days and grow in size. The caterpillar then secretes a liquid. This liquid hardens on coming in contact with air and changes into a fine thread which is made up of a protein. The caterpillar covers itself completely with these fine fibres. This covering is called as cocoon. The silkworm develops into a silk moth inside the cocoon.	3
11	List any three factors responsible for the scarcity of water." <b>Ans</b> -- Factors responsible for the scarcity of water. <ul style="list-style-type: none"><li>• Deforestation.</li></ul>	3

	<ul style="list-style-type: none"> <li>• Decrease in rainfall.</li> <li>• Increase in population.</li> </ul>	
12	<p>Mention any three ways to replenish nutrients in the soil.</p> <p><b>Ans--</b> Ways to replenish nutrients in the soil.</p> <ul style="list-style-type: none"> <li>• Decomposition of dead parts of organism.</li> <li>• Bacteria like Rhizobium.</li> <li>• Fertilisers</li> <li>• Manures</li> </ul>	3
13	<p><b>Read this case study carefully and answer the following questions.</b></p> <p><b>Riya, a curious student, decided to try a small experiment on her potted plant. She carefully applied a thin layer of Vaseline on both sides of one leaf and left the plant alone for a few days. To her surprise, all the other leaves stayed fresh and green, but the Vaseline-covered leaf slowly turned yellow and dropped off! Riya wondered: what could have caused this one leaf to die while the others stayed healthy?</b></p> <p>1. What important parts of the leaf might have been blocked by the Vaseline? <b>Ans—</b>Vessels.</p> <p>2. Describe the role of chlorophyll in plants. <b>Ans—</b>Role of chlorophyll is to capture the energy of the sun.</p> <p>3. Name the gases exchange during the process of photosynthesis. <b>Ans—</b>Carbon Dioxide and oxygen.</p> <p>4. Can you name the process that helps the other leaves stay healthy?" <b>Ans—</b>Photosynthesis.</p>	4
14	<p>(a) Woollen clothes keep us warm in winter explain? <b>Ans--</b> Woollen clothes keep us warm in winters because wool traps air since, air is a poor conductor of heat and does not allow our body heat to escape. This keeps us warm in winters.</p> <p>(b) Write in brief about the basic details and the role of the sewerage system. <b>Ans--</b> As a network of pipes brings clean water to our homes, a network of pipes takes the waste water, or sewage, away. This network of pipes is called the sewerage system. It carries the sewage, from its source, to a waste water treatment plant. The waste water is cleaned, and purified, by various processes at these treatment plants. The water, thus, treated and cleaned, is then allowed to mix with river or sea water.</p>	2+3



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4	Name the country which produce wide varieties of silk. a) China                      b) Uzbekistan                      c) Indonesia                      d) India	1
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6	<b>Assertion: There is no scarcity of drinking water.</b> <b>Reason: Three fourth part of earth is covered with water.</b> (i) Both A and R are true and R is correct explanation of the assertion. (ii) Both A and R are true and R is not the correct explanation of the assertion (iii) A is true but R is false (iv) A is false but R is true	1
7	Write raw material and products of photosynthesis.  <b>Ans--Raw Materials</b> <ul style="list-style-type: none"><li>• Water</li><li>• Minerals</li><li>• Carbohydrates</li></ul> <b>Products</b> <ul style="list-style-type: none"><li>• Carbon Dioxide</li><li>• Oxygen</li></ul>	2
8	Differentiate between reeling and dyeing of silk.  <b>Ans--Reeling</b> -Cocoons are collected and exposed to the steam. Silk Fibres are separated from the cocoon. This process is called reeling <b>Dyeing</b> -The silk fibres are collected by the different colours called dyeing	2
9	Draw a pie chart to explain the percentage of water present in different forms on Earth. <b>Ans</b> —Page no.238 of book	2
10	a). State the practical use of the <b>long and short</b> yarn threads obtained during the making of wool. <b>Ans</b> --The longer threads are usually knitted to make sweaters, mufflers, caps, gloves, socks, etc. The shorter threads are woven to make woollen fabrics which are used for making coats, trousers, jackets and shawls. b). Give the meaning of the term sorting. <b>Ans</b> —The process of separating hairs of different textures from the fleece is called	2+1
11	State any three precautions that can help avoid the choking drains. <b>Ans</b> —Following are the precautions that can help avoid the choking drains <ul style="list-style-type: none"><li>• Do not throw leftover food in the drainage.</li></ul>	3

	<ul style="list-style-type: none"> <li>Do not throw cooking oil in drain.</li> <li>Do not throw chemicals like medicines, paints, engine oil etc in the drain.</li> </ul>	
12	<p>Give the reasons for the following</p> <p>a). Lichen is a living partnership between a fungus &amp; an alga and this partnership is beneficial to both.  <b>Ans</b>—Lichen is a living partnership between fungus and alga because fungus provides shelter to alga and alga prepares food by the process of photosynthesis.</p> <p>b). Leaf is known as the food factory of plant.  <b>Ans</b>—The synthesis of food occurs in the leaves, hence leaf is known as the food of plant.</p>	2+1
13	<p><b>Read this case study carefully and answer the following questions.</b></p> <p><b>Riya, a curious student, decided to try a small experiment on her potted plant. She carefully applied a thin layer of Vaseline on both sides of one leaf and left the plant alone for a few days. To her surprise, all the other leaves stayed fresh and green, but the Vaseline-covered leaf slowly turned yellow and dropped off! Riya wondered: what could have caused this one leaf to die while the others stayed healthy?</b></p> <p>1. What important parts of the leaf might have been blocked by the Vaseline?  <b>Ans</b>-- Vessels</p> <p>2. Describe the role of vessels in plants.  <b>Ans</b>—Vessels transports water and minerals to all parts of the plant</p> <p>3. Write the difference between autotrophic and heterotrophic mode of nutrition.  <b>Ans</b>—Autotrophic-A mode of nutrition where organism prepares their own food is known as autotrophic mode of nutrition. E.g. -Plants and Alga  - Heterotrophic-A mode of nutrition where organism depend for food to plants is known as heterotrophic mode of nutrition. E.g.- Humans and Animals</p> <p>4. Can you name the process that helps the other leaves stay healthy?"  <b>Ans</b>—Photosynthesis.</p>	4
14	<p>(a). Provide a brief idea of how rainwater harvesting is practiced  <b>Ans</b>—Rain water should be collected in underground tanks and allowed to seep through the soil. It will replenish the ground water. Rain water also been collected in open tanks and used for daily needs. This process is called rain water harvesting.</p> <p>(b). Write a short note on rearing of silkworms.  <b>Ans</b>-- Rearing of silkworms: Silk moth is a large, white insect. A female silk moth lays hundreds of eggs which are stored at a suitable temperature. These eggs hatch to produce larvae which are called caterpillars or silkworms. These larvae are kept in clean boxes where they feed on fresh mulberry leaves for 25-30 days and grow in size. The caterpillar then secretes a liquid. This liquid hardens on coming in contact with air and changes into a fine thread which is made up of a protein. The caterpillar covers itself completely with these fine fibres. This covering is called as cocoon. The silkworm develops into a silk moth inside the cocoon.</p>	2+3