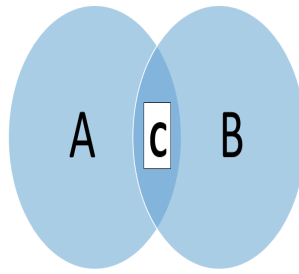






CLASS VI
BIOLOGY
ANNUAL EXAMINATION (2024-25)
SET A1/A2
MARKING KEY

MM: 20

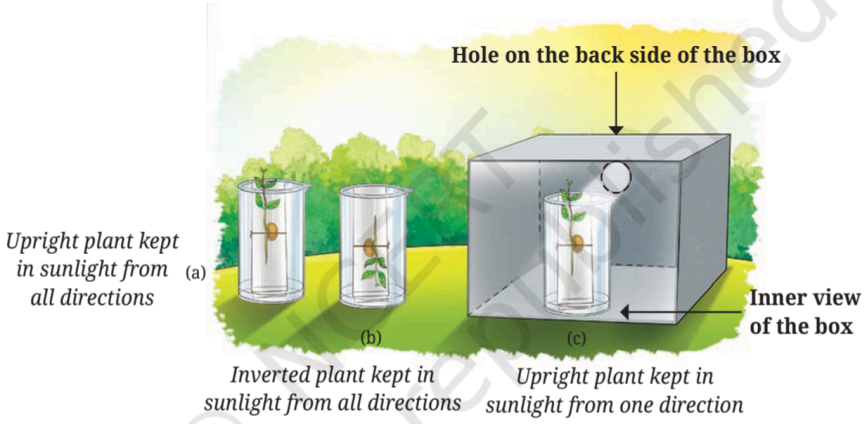
A1	A2	Questions with expected answers	Marks
1	4	<p>A student wanted to test a food item for the presence of proteins. He took a paste of sprouts in the test tube and added two drops of copper sulphate solution and 10 drops of _____ solution. He left the test tubes undisturbed for a few minutes. The contents of the test tube will turn to _____ color. Select the correct option to fill in the blanks.</p> <p>(a) Caustic soda, Violet (b) Hydrochloric acid, Red (c) Iodine solution, Blue black (d) Sodium hydroxide, Pink Ans: (a) Caustic soda, Violet</p>	1
2	3	<p>The following steps list the journey of a chapati from farm to our plates. Identify the option that correctly describes the sequence of steps.</p> <p>1. Threshing and winnowing of grains 2. Grinding of grains and packing 3. Storage of grains 4. Transport to retail shop 5. Farmer growing wheat 6. Food on our plate.</p> <p>(a) 1,2,3,4,5,6 (b) 6,5,3,4,1,2 (c) 5,1,3,2,4,6 (d) 2,4,5,1,3,6 Ans: (c) 5,1,3,2,4,6</p>	1
3	2	<p>In the given diagram, the area 'A' represents the aquatic animals, area 'B' represents the terrestrial animals, and area 'C' represents the animals living in both habitats in part 'C'. Which of the following animals will fall under area 'C'?</p>	1



- (a) Snake
 - (b) Frog
 - (c) Fish
 - (d) Sheep
- Ans: (b) Frog**

4	1	<p>Four identical pots were taken and filled with garden soil. Four bean seeds were sown in each pot. Now, these pots were kept in the following conditions for 15 days:</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p><i>(a) Pot A kept in direct sunlight, no water</i></p> </div> <div style="text-align: center;">  <p><i>(b) Pot B kept in direct sunlight, excess water</i></p> </div> <div style="text-align: center;">  <p><i>(c) Pot C with moist soil, kept in the dark</i></p> </div> <div style="text-align: center;">  <p><i>(d) Pot D with moist soil, kept in direct sunlight</i></p> </div> </div> <p>In which of the pots will the seeds germinate?</p> <ul style="list-style-type: none"> (a) Pot A (b) Pot B (c) Both Pot A and B (d) Pot D <p>Ans: (d) Pot D</p>	1
		<p>Following questions 5 and 6 consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below:</p> <ul style="list-style-type: none"> (a) Both A and R are true and R is the correct explanation of A. (b) Both A and R are true but R is not the correct explanation of A. (c) A is true but R is false. (d) A is false but R is true. 	
5	6	<p>Assertion: The place where plants and animals live is called their habitat. Reason: The habitat of a camel is the mountains. Ans: (c) A is true but R is false.</p>	1

6	5	<p>Assertion: We are advised not to allow water to stagnate anywhere in our surroundings.</p> <p>Reason: Female mosquitoes that breed in water transmit several diseases like malaria, dengue and chikungunya.</p> <p>Ans: (a) Both A and R are true and R is the correct explanation of A.</p>	1
7	7	<p>Attempt either (A) or (B)</p> <p>(A) Plants can be grouped into three major categories: Herbs, shrubs, and trees. The given picture shows a tomato plant. Identify the category of plant that it belongs to and mention any one characteristic feature of it.</p> <div data-bbox="656 453 1122 821" data-label="Image"> </div> <p style="text-align: center;">OR</p> <p>(B) What is the difference in the features of the Cactus plant in the desert and Deodar trees in the mountains that helps them survive in their particular habitats?</p> <div data-bbox="418 1014 857 1413" data-label="Image"> </div> <div data-bbox="883 1014 1260 1413" data-label="Image"> </div> <p style="text-align: center;">(a) Cactus plant (b) Deodar trees</p> <p>Ans: (i) Tomato plant is a herb. It has short height/ it has a green and tender stem.</p> <p style="text-align: center;">OR</p> <p>(ii)</p> <ul style="list-style-type: none"> • Cactus plants have thick and fleshy stems which can store water and help them tolerate the hot conditions in the desert. • Deodar trees are conical in shape and have flexible and sloping branches to help the snow slide off easily in the cold mountain regions. 	<p style="text-align: right;">2</p> <p style="text-align: right;">1</p> <p style="text-align: right;">1</p> <p style="text-align: right;">1</p>

10	10	<p>Attempt either (A) or (B)</p> <p>(A) The objects around us can be categorised into two types living and non-living. Various features can be used to distinguish living from the non-living. Answer the following questions related to characteristics of living organisms.</p> <p>(i) Give two examples where living organisms show response to stimuli. (ii) Define excretion. Name any one excretory product in human beings. (iii) How do plants respire?</p> <p>Ans: (i)- touch me-not plants fold their leaves when we touch them. -removing our hand when we accidentally touch a hot object.</p> <p>(ii) Removal of waste products from the body is called excretion. Excretory product- sweat/ urine</p> <p>(iii) There are tiny pores called stomata on the surface of leaves. These pores help plants in taking air in and out.</p> <p style="text-align: center;">OR</p> <p>(B)</p> <p>(i) Name two conditions required for germination of seeds. (ii) Observe the given diagram. 3 seedlings are sown in different conditions. Seedling in beaker (a) is sown upright where it receives sunlight from all directions. Seedling in beaker (b) is sown inverted and it also receives sunlight from all directions. Seedling in beaker (c) is sown upright but it receives sunlight from one direction only. What will be the observation of the direction of growth of shoot and root in the three beakers respectively?</p> <div style="text-align: center;">  </div> <p>Ans:</p> <p>(i) air/water/ sunlight</p> <p>(ii) 1. In beaker (a)- When the plant is kept upright, the root grows downwards and the shoot grows upwards.</p> <p>2. In beaker (b)- When the plant is kept inverted, the root bends and grows downwards. Also, the shoot bends and grows upwards.</p> <p>3. In beaker (c)- When the plant gets sunlight only from one direction, the shoot grows in the direction of light while the root continues to grow downwards.</p>	<p style="text-align: right;">5</p> <p style="text-align: right;">1+1</p> <p style="text-align: right;">1+1</p> <p style="text-align: right;">1</p> <p style="text-align: right;">1+1</p> <p style="text-align: right;">1</p> <p style="text-align: right;">1</p> <p style="text-align: right;">1</p>
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