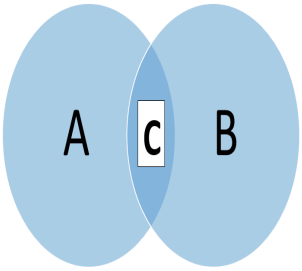
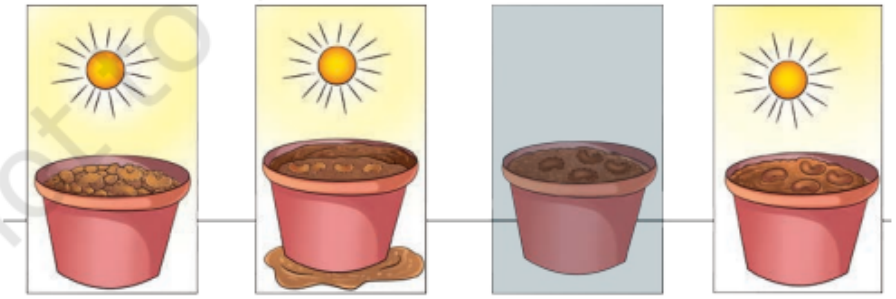
No. of printed pages: 4

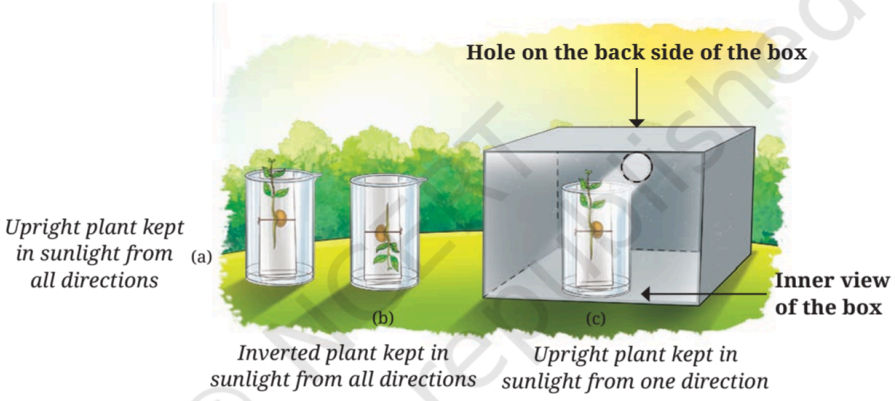
CLASS VI
BIOLOGY
ANNUAL EXAMINATION (2024-25)
SET A1

MM: 20

S.no	Questions	Marks
1	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. (a) Caustic soda, Violet (b) Hydrochloric acid, Red (c) Iodine solution, Blue black (d) Sodium hydroxide, Pink	**1**
2	The following steps list the journey of a chapati from farm to our plates. Identify the option that correctly describes the sequence of steps. 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. (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	**1**
3	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’?	**1**

	 (a) Snake (b) Frog (c) Fish (d) Sheep	
4	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:  *(a) Pot A kept in direct sunlight, no water* *(b) Pot B kept in direct sunlight, excess water* *(c) Pot C with moist soil, kept in the dark* *(d) Pot D with moist soil, kept in direct sunlight* In which of the pots will the seeds germinate? (a) Pot A (b) Pot B (c) Both Pot A and B (d) Pot D	**1**
	Following questions 5 and 6 consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below: (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	**Assertion:** The place where plants and animals live is called their habitat. **Reason:** The habitat of a camel is the mountains.	**1**
6	**Assertion:** We are advised not to allow water to stagnate anywhere in our surroundings. **Reason:** Female mosquitoes that breed in water transmit several diseases like malaria, dengue and chikungunya.	**1**

7	**Attempt either (A) or (B)** (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. **OR** (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? **(a) Cactus plant** **(b) Deodar trees**	**2**
8	Given below are two types of seeds (a) and (b). Identify these as dicot or monocot seeds. Also mention the type of root and venation pattern of their plants. *(a) Wheat* *(b) Kidney beans*	**3**

9	In the 1960s, Indian scientists found that among the human population in the Himalayan region and the Northern plains of India, symptoms of swelling at the front of the neck were prevalent. These symptoms were due to a deficiency of a particular nutrient in the soil of this region resulting in a lack of the nutrient in the local food and water supply. (a) Name the nutrient lacking in the diet of the people in these areas. (b) The symptoms appearing in the people are indicative of which disease? **Attempt either (c) or (d)** (c) List two food items that should be consumed to relieve these symptoms. **OR** (d) State two other examples of diseases that can be caused due to deficiency of a certain nutrient in the body.	**4**
10	**Attempt either (A) or (B)** (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. (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? **OR** (B) (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?  	**5**