

Section I: Each of the following carries 1**(12 marks)****mark: Choose the correct answers:**

1. Tick the correct Solution: Amarbel is an example of:
 - A. autotroph
 - B. parasite
 - C. saprotroph
 - D. host
2. The plant which traps and feeds on insects is:
 - A. Cuscuta
 - B. China rose
 - C. Pitcher plant
 - D. Rose
3. When the pH of the rain water drops below 5.6 it is called____?
 - A. Global warming
 - B. Greenhouse effect
 - C. Acid rain
 - D. Precipitation
4. If the soil contains greater proportion of bigger particles it is called
 - A. Sandy soil
 - B. clayey soil
 - C. Loamy soil
 - D. Red soil
5. The study of science that deals with the production and rearing of silkworm is?
 - A. Cell biology
 - B. Paleontology
 - C. Sericulture
 - D. Pesiculture
6. A chemical change in which an element or compound unites with oxygen is called____
 - A. Oxidation
 - B. Rusting
 - C. Combustion
 - D. Burning
7. Which of the following does not yield wool?
 - A. Yak
 - B. Camel
 - C. Goat
 - D. Woolly dog

8. One liter of water at 30°C is mixed with one liter of water at 50°C . The temperature of the mixture will be
- A. 80°C
 - B. more than 50°C but less than 80°C
 - C. 20°C
 - D. between 30°C and 50°C

Fill in the blanks:

9. Green plants are called _____ since they synthesize their own food.
10. The food synthesized by the plants is stored as _____.
11. In photosynthesis solar energy is captured by the pigment called _____.
12. During photosynthesis plants take in _____ and release _____.

Section II: Each question carries 2 marks:

(20 marks)

1. Name the type of carbohydrate that can be digested by ruminants but not by humans. Give the reason also.
2. Discuss why wearing more layers of clothing during winter keeps us warmer than wearing just one thick piece of clothing.
3. Name the breathing organs in
a) cockroach b) frog c) plant d) earthworm
4. Draw schematic diagram of circulation of blood
5. Give one function each of W.B.C and Platelets
6. List two differences between 'sexual' and 'asexual' reproduction
7. Draw the different steps in budding of yeast
8. Draw a closed electric circuit using symbols of electric components.
9. Is the distilled water acidic/basic/neutral? How would you verify it?
10. Name the source from which litmus solution is obtained. What is the use of this solution?

Section III: Each question carries 3 marks?

(24 marks)

1. Name the following:
 - (i) A parasitic plant with yellow, slender and tubular stem.
 - (ii) A plant that has both autotrophic and heterotrophic mode of nutrition.
 - (iii) The pores through which leaves exchange gases.
2. What are villi? What is their location and function?
3. Can we survive only on raw, leafy vegetables/ grass? Discuss.
4. State similarities and differences between the laboratory thermometer and the clinical thermometer.
5. Mark where the heat is being transferred by conduction, by convection and by radiation.



6. How do forests help in increasing the economy?
7. How can we prevent our environment from the sludge?
8. When baking soda is mixed with lemon juice, bubbles are formed with the evolution of a gas. What type of change is it? Explain.

Section IV: Each question carries 4 marks?

(24 marks)

1. Explain why rusting of iron objects is faster in coastal areas than in deserts.
2. Explain, with examples, why we find animals of certain kind living in particular climatic conditions?
3. Explain why holes are made in hanging banners and hoardings.
4. Sketch the cross section of soil and label the various layers.
5. Why is transport of materials necessary in a plant or in an animal? Explain.
6. Draw a diagram of the human excretory system and label the various parts.