

SECTION – A (40 marks)

Answer All The Questions from this section

1. Choose the correct answer :-

[15]

- (i) The unit of chromosome is called .
 (a) gene (b) nucleus (c) nucleolus (d) necleoplasm
- (ii) Which of the following has compound leaf.
 (a) Rose. (b) Banyan (c) Banana (d) Lotus
- (iii) Which of the following is not required by plant for photosynthesis.
 (a) Oxygen (b) water (c) Carbon dioxide (d) Sunlight.
- (iv) Which of the following is not an insectivorous plant.
 (a) Pitcher (b) Bladderwort (c) Bryophyllum (d) Venusflytrap
- (v) The living substance of the cell.
 (a) Cytoplasm (b) Protoplasm (c) cellwall (d) vacuole
- (vi) Total number of chromosomes in the cell of Humanbeing.
 (a) 46 (b) 23 (c) 14 (d) 64
- (vii) Which leaf has reticulate venation.
 (a) Banana (b) Grass (c) Maize (d) mango
- (viii) Which statement is not correct for cell wall.
 (a) It gives shape (b) it gives rigidity (c) It protects (d) It is living.
- (ix) Which of the following animal shows mountain adaptation.
 (a) Yak (b) camel (c) cat (d) whale.
- (x) Which plant shows desert adaptation.
 (a) Cactus (b) Mango (c) vallisneria (d) Rice.
- (xi) Which cell is responsible for conduction messages in our body.
 (a) Muscle cell (b) Nerve cell. (c) skin cell (d) gland cell.
- (xii) Which of the following is multicellular organism.
 (a) Spirogyra (b)Amoeba (c) chlamydomonas (d) Paramecium.
- (xiii) Which of the following is not insct pollinated flower.
 (a) Marigold (b) Dahlia (c) flower of pine (d) Salvia
- (xiv) Suitable temperature range for germination of seed.
 (a) 10 to 20C⁰ (b) 25 to 35C⁰ (c) 35 to 45C⁰ . (d) 40 to 50C⁰.
- (xv) Which part is not consider as the aerial part of the plant.
 (a) Bud (b) leaves (c) Root (d) fruit.

- 2. Name the following:** [5]
- (i) The basal part of a leaf is called.
 - (ii) The study of a cell is called.
 - (iii) The male gamete of the plant.
 - (iv) A marine mammal.
 - (v) The slipper shaped animal.
- 3. Match the column:-** [5]
- | A | B |
|--------------------|-------------------------------------|
| (i) Cytoplasm. | _ Regulates cell. |
| (ii) Nucleus. | _ Non living inclusion of the cell. |
| (iii) Vacuole. | _ Semiliquid colourless substance. |
| (iv) Plastid. | _ Covers the cell. |
| (v) Cell membrane. | _ Gives rigidity to the cell |
| | _ Imparts colour to plants. |
- 4. Choose the odd one out and write the category of the rest :-** [5]
- (i) Mustard, Marigold, Dahlia, pine.
 - (ii) Grape, Tomato, Papaya, Mango.
 - (iii) Fish, Crocodile, Camel, Whale.
 - (iv) Plastid, Ribosomes, cellwall, Mitochondria.
 - (v) Scale leaves, Spines, Tendril Taproot.
- 5. Fill up the following :-** [5]
- (i) _____ cells help in the movement in our body.
 - (ii) A flower has _____ whorls.
 - (iii) _____ is the wiry coiled structure of the plant.
 - (iv) _____ is the protein layer of maize .
 - (v) The pigment_____ helps in photosynthesis.
- 6. Mention whether the following statements are true or false. If false, correct the statement by changing only one word:-** [5]
- (i) The point where leaves originates called internode.
 - (ii) The insectivorous plant are found in the soil lacking in carbon.
 - (iii) Scientist Leeuwenhoek coined the term cell.
 - (iv) The cell membrane is made up of cellulose
 - (v) The small opening found on the concavity of bean seed is called hilum.

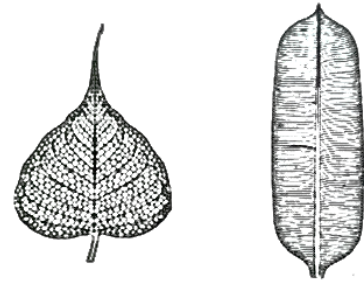
Section B
Answer any four questions from this section

- 7. Answer the following :-** [1+2+2+2+3]
- (i) Define "habitat "
 - (ii) Write one difference between simple and compound leaf giving one example each.
 - (iii) Mention two functions of fruits
 - (iv) Name two coloured plastids and mention their function.
 - (v) Draw a leaf and label any five parts.

8. Answer the following question :-

[1+2+2+2+3=10]

- (i) Define "Photosynthesis".
- (ii) Redraw the leaves and identify the type of venation.
- (iii) What is germination? Write two conditions require for germination
- (iv) Mention two adaptations of fish for aquatic adaptation.
- (v) Draw a flower and label four whorls.



9. Answer the following question :-

[1+2+2+2+3=10]

- (i) Define fertilisation.
- (ii) Why do animals adapt? (Mention any two reasons).
- (iii) Draw Taproot and fibrous root and mention one difference.
- (iv) Write two features of insect pollinated flower.
- (v) Redraw the fruit and mention the three parts of pericarp.



10. Answer the following question :-

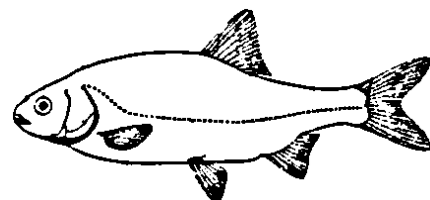
[1+2+2+2+3=10]

- (i) What is a cell?
- (ii) What are false fruit? Draw a false fruit.
- (iii) Write two difference between bean and maize.
- (iv) write two significance of photosynthesis.
- (v) Draw a bean seed and label any four parts.

11. Answer the following question :-

[1+2+2+2+3=10]

- (i) What do you mean hermaphrodite?
- (ii) Write two difference between cellwall and cell membrane.
- (iii) What is the function of flower? Write the difference between complete and incomplete flower.
- (iv) Write two statements of cell theory.
- (v) Redraw the given organism and label all the fins.



***** ALL THE BEST*****

