# **CBSE TEST – 2**

## Section – A: $(1 \times 3 = 3)$

M.M : 35

CLASS: 11th

- 1. How many times does carbonic anhydrase enhance the formation of carbonic acid?
- **2.** What is the function of nucleolus?
- **3.** What is the basis of designating  $C_3$  and  $C_4$  cycle of photosynthesis?

#### Section – B: $(2 \times 5 = 10)$

- **4.**  $2H_2O \rightarrow 2H^+ + O_2 + 4e^-$  on the basis of the above equation, answer the following questions:
  - (a) Where does this reaction take place in plants during photosynthesis?
  - (b) What is the significance of this reaction?
- **5.** (a) Mention two key features of metaphase of mitosis.
  - (b) What are inclusion bodies? Give two examples.
- **6.** RUBISCO is an enzyme that acts both as carboxylase and oxygenase. Why do you think this enzyme carries out more carboxylate in C<sub>4</sub> plants?
- 7. Differentiate between osmosis and diffusion.
- **8.** Guttation and transpiration are the two mechanisms by which.

## Section – C: $(3 \times 4 = 12)$

- **9.** (a) Write any four fuctions of Boron in plants.
  - (b) Name two free-living bacteria that are nitrogen fixers.
- **10.** (a) Write any four functions of Auxins in plants.
  - (b) What is seed dormancy?
- 11. (a) Give reason for each of the following
  - (i) The concentration of certains ions is higher inside the vacuole than in cyptoplasm.
  - (ii) Golgi bodies are found nearer to ER in a cell.
  - (b) Mention two key features of Anaphase.
- **12.** Draw a labelled of a chloroplast there is division of labour in chloroplast justify.

# Section – D: $(5 \times 2 = 10)$

- 13. Where does Kreb's cycle occur in a cell? Describe the reactions in proper sequence with the help of a schematic representation (indicating the sites of NADIFAD reduction, CO<sub>2</sub> release etc).
- **14.** (a) What is Kenetochore? Mention its function.
  - (b) Differentiate between saturated and unsaturated fatty acids with an example of each.
  - (c) Write the structural formula of triglycoride.