

## SECTION 'B' (Short-Answer Questions) (14)

### NOTE:

2. Attempt any SIX part questions. Each question carries one mark. Answer should not exceed two lines.
2. i) Why is ATP called Biological currency of energy?
  2. ii) Name any two diseases caused by Bacteria in human beings
  2. iii) Define Heterospory.
  2. iv) Name three methods of genetic recombination found in Bacteria.
  2. v) Why is Protocista considered a Polyphyletic kingdom?
  2. vi) Name only the sub-divisions of Tracheophyta.
  2. vii) Why is Anthocerotae considered an advance class of Bryophyta?
  2. viii) What is chemosynthetic nutrition?
  2. ix) Define Imbibition OR Osmosis.
3. Attempt any four part questions. Each question carries two marks. Answer should not exceed five lines.
3. i) Draw well labelled diagram of any one of the following:
    - \* L.S of Ovule
    - \* T.S of Marchantia Thallus
  3. ii) Why are Bryophytes called the amphibious plants.
  3. iii) Discuss the steps involved in evolution of seed.
  3. iv) Write any four features of Cyanobacteria.
  3. v) Distinguish between any one of the following:
    - \* Angiosperm and Gymnosperm
    - \* Alcoholic Fermentation & lactic acid fermentation
  3. vi) Classify Bacteria on the basis of flagella.
  3. vii) Mention any two factors which affect the opening and closing of stomata.

## SECTION 'C' (Detailed Answer Questions)(09)

NOTE: Attempt any Two questions from this section. All questions carry equal marks.

4. Describe the life cycle of fern. (Diagram no required)
5. Draw and describe the life cycle of Zygomycota.
6. Describe the light dependent reactions of photosynthesis.
7. Discuss Transpiration pull theory.