

**B. TECH**  
**(SEM-I) THEORY EXAMINATION 2019-20**  
**REMEDIAL BIOLOGY-I**

**Time: 3 Hours****Total Marks: 70****Note: 1.** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A**

- 1. Attempt all questions in brief. 2 x 7 = 14**
- a. What are porins?
  - b. Define the structure of mitochondria.
  - c. What are plumule and radicle in the plants?
  - d. Explain museums.
  - e. What is coelom?
  - f. What is complete dominance and incomplete dominance?
  - g. What is the difference between transpiration and evaporation?

**SECTION B**

- 2. Attempt any three of the following: 7 x 3 = 21**
- a. What is chloroplast? Discuss the function of chloroplast.
  - b. Define the terms: zygomorphic, actinomorphic, superior ovary, parthenocarpic.
  - c. Describe law of segregation with suitable example.
  - d. Define photosynthesis give why it is important.
  - e. Briefly describe the life cycle of angiosperm.

**SECTION C**

- 3. Attempt any one part of the following: 7 x 1 = 7**
- (a) What is the difference between prokaryotic and eukaryotic cells?
  - (b) Compare C<sub>3</sub> and C<sub>4</sub> plants with diagram.
- 4. Attempt any one part of the following: 7 x 1 = 7**
- (a) Why Cell is the basic unit of life?
  - (b) Describe modification of stem.
- 5. Attempt any one part of the following: 7 x 1 = 7**
- (a) Explain the basis of classification of algae.
  - (b) Give classification of kingdom Plantae.
- 6. Attempt any one part of the following: 7 x 1 = 7**
- (a) How are the minerals absorbed by the plants? Explain in detail.
  - (b) Explain Cell cycle.
- 7. Attempt any one part of the following: 7 x 1 = 7**
- (a) What is the difference between mitosis and meiosis?
  - (b) What is the Role of micro and macronutrients in plants?