



(Following Paper ID and Roll No. to be filled in your Answer Book)

**PAPER ID : 154105**

Roll No.

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## B. Tech.

(SEM. I) (ODD SEM.) THEORY  
EXAMINATION, 2014-15

**REMEDIAL BIOLOGY - I**

Time : 3 Hours]

[Total Marks : 100

Note : Attempt all questions.

- 1 Attempt any four parts of following : 4×5=20
  - a. What is photosynthesis? How it is different by respiration?
  - b. Explain the structure and function of viroids.
  - c. Discuss the structure and function of ribosome.
  - d. What is nuclear membrane? Discuss the applications of nuclear membrane.
  - e. What are nuclear pores? Discuss the function of mitochondria.
  
- 2 Attempt any four parts of following : 4×5=20
  - a. What is a binomial system of nomenclature?
  - b. Give a short description on five Kingdom classification of living organism.
  - c. Why lysosomes are called "Suicide bags"?
  - d. What environmental factors could affect plant growth?
  - e. Why mitochondria are known as "Power house" of the cell?

- 3** Attempt any two parts of following :  $2 \times 10 = 20$
- Differentiate between Prokaryotic and Eukaryotic cell with examples.
  - Discuss the morphology and anatomy of monocot leaf.
  - Discuss type of inflorescence in plants with suitable diagram.
- 4** Attempt any two parts of following :  $2 \times 10 = 20$
- What is a cell cycle? Differentiate between meiotic and mitotic cell.
  - Give a brief account of viruses with respect to their structure and nature of genetic material.
  - Describe the process of photosynthesis in plants. Explain biochemical reactions during photosynthesis.
- 5** Attempt any two parts of following :  $2 \times 10 = 20$
- Discuss structural and functional features of prokaryotic and eukaryotic cells. How are these different each other?
  - What is meiosis? Describe the various events that occur during the process of meiosis in a cell.
  - Define cell. What are the difference between plant and animal cell ?
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