



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

**PAPER ID : 154108**

Roll No.

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**B.Tech**

**(FIRST YEAR) SPECIAL CARRYOVER THEORY  
EXAMINATION,2014-15**

**REMEDIAL BIOLOGY-I**

*Time : 3 Hours]*

*[Total Marks : 100*

- 1) Attempt any two parts of the following 10X2=20
  - a) What are the difference between plant and animal cell?  
Explain in detailed structure of plant cell.
  - b) Differentiate between prokaryotic and eukaryotic cells  
in brief.
  - c) Which organelle of cell is known as power house of  
cell? Explain the function of mitochondria.
  
- 2) Attempt any four parts of the following 5X4=20
  - a) Explain the Five kingdoms Classification in brief.

- b) What are the differences between fruit and seed?
- c) Describe the concept of systematic and binomial system of nomenclature.
- d) What do you mean by Cell Cycle? Describe in brief.
- e) Enlist the different parts of plants.

3) Attempt any two parts of the following  $10 \times 2 = 20$

- a) Briefly describe the basic chemical constituents of living body.
- b) Discuss the design and use of compound microscope.
- c) Describe the concepts of Concepts of botanical garden, herbaria, zoological park and museums in brief.

4) Attempt any two parts of the following  $10 \times 2 = 20$

- a) Describe the structure and function of cell membrane.
- b) What are the differences between mitosis and meiosis?
- c) What do you understand by photosynthesis? Explain dark reaction in brief.

5) Write short notes on any four of the following  $5 \times 4 = 20$

- a) Osmosis

- b) Inflorescence
- c) Movement of water in plants
- d) Law of dominance
- e) Cell membrane

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