

Paper Id: 

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

**Time: 3 Hours****Total Marks: 100****Note:** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A****1. Attempt all questions in brief. 2 x 10 = 20**

a.	Draw the basic structure of the cell.
b.	What do you mean by cilia and flagella?
c.	Explain the function of stem and root.
d.	Who has given five kingdom classification?
e.	What is inferior ovary?
f.	What is herbarium?
g.	What is the significance of meiosis?
h.	Explain G° (quiescent phase) of cell cycle?
i.	What is karyokinesis during cell division?
j.	What are porins?

**SECTION B****2. Attempt any three of the following: 10x3=30**

a.	What is the difference between animal cells and plant cells?
b.	Briefly describe the anatomy of dicotyledonous and monocotyledonous plants.
c.	Explain kingdom animalia in detail.
d.	Explain all the stages of mitosis with well labeled diagram.
e.	Define the concept of diffusion.

**SECTION C****3. Attempt any one part of the following: 10x1=10**

a.	What are basic chemical constituents of living body?
b.	What is the binomial system of nomenclature explain with an examples?

**4. Attempt any one part of the following: 10x1=10**

a.	What are the five kingdom classification and their characteristics?
b.	Explain the different types of cell organelles with suitable diagram.

**5. Attempt any one part of the following: 10x1=10**

a.	Explain the modification of stem.
b.	What is photorespiration?

**6. Attempt any one part of the following: 10x1=10**

a.	What is bryophytes? Briefly comment on its significance. Give the examples.
b.	Distinguish mitosis and meiosis.

**7. Attempt any one part of the following: 10x1=10**

a.	How are the minerals absorbed by the plants? Explain in detail.
b.	What is gene and what is the difference between gene and alleles?