Paper Id: | 154102 | **Roll No:** | | | | | | | | | | | | | **Sub Code:KBT102**

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

Time: 3 Hours *Total Marks: 100*

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. **Attempt *all* questions in brief.** **2 x 10 = 20**

Qno.	Question	Marks	CO
a.	What are the characteristics features of prokaryotic cells?	2	1
b.	What is cell theory?	2	1
c.	What is phyllotaxy?	2	2
d.	Who has given the five kingdom classification?	2	3
e.	What is the scientific name of mango?	2	3
f.	What is superior ovary?	2	2
g.	What is the difference between gene and allele?	2	4
h.	Explain the concept of linkage?	2	4
i.	Differentiate between diffusion and osmosis.	2	5
j.	Explain transpiration.	2	5

SECTION B

2. **Attempt any *three* of the following:** **3 x 10 = 30**

Qno.	Question	Marks	CO
a.	What is compound microscope? Discuss with the suitable diagram?	10	1
b.	Describe the different types of flowering plants.	10	2
c.	Explain kingdom Animalia in detail.	10	3
d.	Discuss the different phases of cell cycle.	10	4
e.	Describe water potential. What are the factors affecting it?	10	5

SECTION C

3. **Attempt any *one* part of the following:** **1 x 10 = 10**

Qno.	Question	Marks	CO
a.	What is the cell? Differentiate between plant cell and animal cell.	10	1
b.	Explain all the stages of meiosis with well labeled diagram.	10	4

4. **Attempt any *one* part of the following:** **1 x 10 = 10**

Qno.	Question	Marks	CO
a.	Explain the basis of classification of algae.	10	3
b.	How are the minerals absorbed by the plants? Explain in detail.	10	5

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5.   **Attempt any *one* part of the following:**   **1 x 10 = 10**

Qno.	Question	Marks	CO
a.	What is inflorescence? Differentiate between racemose and cymose inflorescence.	10	2
b.	Explain macromolecules with examples.	10	1

6.   **Attempt any *one* part of the following:**   **1 x 10 = 10**

Qno.	Question	Marks	CO
a.	Explain the life cycle of angiosperm with the help of suitable diagram.	10	3
b.	What is root? What is meant by modification of root?	10	2

7.   **Attempt any *one* part of the following:**   **1 x 10 = 10**

Qno.	Question	Marks	CO
a.	Explain law of independent assortment with suitable example.	10	4
b.	What is the process of photosynthesis? Explain in detail.	10	5