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B.Tech I Year II Semester (R15) Regular Examinations May/June 2019

BASIC MICROBIOLOGY

(Food Technology)

Time: 3 hours Max. Marks: 70

PART - A

(Compulsory Question)

- 1 Answer the following: $(10 \times 02 = 20 \text{ Marks})$
 - (a) Mention the applied areas of microbiology.
 - (b) Distinguish bright vs. dark field microscope.
 - (c) How filaments did help the bacterial movement?
 - (d) Define bacterial conjugation.
 - (e) What is meant by mutation rate?
 - (f) Mention the mutation repair process.
 - (g) Give the structure of DNA in a virus.
 - (h) Define replication of virus.
 - (i) Give certain chemo-therapeutic agents to control microbes.
 - (j) Mention on plate count method.

PART - B

(Answer all five units, $5 \times 10 = 50 \text{ Marks}$)

UNIT – I

2 Explain theory, instrument design and working of transmission electron microscope.

OR

3 Explain the morphology, characteristics and reproduction of fungi and molds.

UNIT - II

4 Elaborate the bacterial identification, reproduction and growth with neat diagram.

OR

5 Explain in detail on the bacterial conjugation, transduction and transformation.

UNIT – III

6 Explain the phenotypes of bacterial mutents and its characteristics.

OR

7 Classify and explain the various designations of bacterial mutents.

UNIT – IV

8 Classify the structures and explain the structure function relationships in virus.

OR

9 Elaborate the various food borne viruses and its consequences.

UNIT – V

10 Illustrate and explain the various methods of bacterial straining.

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11 Give a detailed account on the methods of control of microorganisms.
