

KARNATAKA STATE OPEN UNIVERSITY
M.Sc. Microbiology - I Semester
Examination May 2015

Course MB 1.1: Microbiology-Perspectives and Classification

Time: 3 Hours

Max. Marks: 80

Instruction: Answer all the sections.

Section A

Answer any **FOUR** questions from the following:

$4 \times 5 = 20$

1. Joseph Lister.
2. Numerical Taxonomy.
3. Bergy's Manual.
4. Gram stain.
5. Spontaneous generation.
6. Agriculturally important microorganisms.

Section B

Answer any **THREE** questions from the following:

$3 \times 10 = 30$

7. Give a detailed account of the five kingdom classification.
8. Discuss the role of microbes in environmental microbiology.
9. Write short notes on the following:
 - a) Alexander Fleming.
 - b) Binomial nomenclature.
10. Write short notes on the following:
 - a) Pasteurization.
 - b) Spirochetes.
11. Outline the role of microorganisms in agriculture.

Section C

Answer any **TWO** questions from the following:

$2 \times 15 = 30$

12. Write an essay on archaeobacteria and their applications.
13. Give an account of importance and scope of microbiology.
14. Write short notes on the following:
 - a) Nitrifying bacteria.
 - b) Robert Koch.
 - c) Prions.
15. Write short notes on the following:
 - a) Needham's experiment.
 - b) Mollicutes.
 - c) Medically important microorganisms.

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