FACULTY OF SCIENCE
B.Sc. I-Semester (CBCS) Examination, December 2016
Subject: Microbiology

Paper – I
General Microbiology – I

Time: 3 Hours
Max. Marks: 80

PART – A (5 x 4 = 20 Marks)
(Short Answer Type)
Note: Answer any FIVE of the following questions.

1. Antony Van Leeuwenhoek
2. Beijerinck
3. Negative staining
4. TEM
5. Hot air oven
6. Aldehydes
7. Micromanipulator
8. Enrichment culturing

PART – B (4 x 15 = 60 Marks)
(Essay Answer Type)
Note: Answer ALL the questions.

9. (a) Briefly explain the contribution of Edward Jenner, Louis Pasteur and Robert Koch in microbiology.
   OR
   (b) Explain the importance and applications of Microbiology in agriculture and food industry.

10. (a) Write an account on the principle and applications of Electron Microscopy.
    OR
    (b) Write the structure of stain and describe the differential staining and capsular staining methods.

11. (a) Define sterilization and explain about physical sterilization methods.
     OR
     (b) What is chemical sterilization? Explain with any three examples.

12. (a) Write in detail about the pure culture isolation techniques.
     OR
     (b) Explain different microbial preservation methods.

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