FACULTY OF SCIENCE
M. Sc. I – Semester Examination, December 2014

Subject: Microbiology
Paper – I: General Microbiology

Time: 3 Hours
Max. Marks: 80

Note: Answer all questions from Part - A and Part - B.
Each question carries 4 marks in Part - A and 12 marks in Part - B.

PART – A (8 x 4 = 32 Marks)
[Short Answer Type]

1. Germ theory of disease
2. Resolving power
3. Thermal death point and time
4. Biological enrichment culturing
5. Numerical taxonomy
6. Chlamidia
7. Basidiocarp
8. Biotrophs and nectrotrophs

PART – B (4 x 12 = 48 Marks)
[Essay Answer Type]

9. a) Explain the contributions of Louis Pasteur for the development of microbiology
   OR
   b) Write on the principle and application of fluorescent microscope

10. a) Explain the microbial culture preservation by lyophilization and cryopreservation
    OR
    b) Explain the methods of sterilization making use of high temperature and filtration.

11. a) Describe the general characters of Mycoplasma and their importance in human health
    OR
    b) What are the criteria used for identification of microorganisms and how are they important?

12. a) How are fungi important for human health and wealth?
    OR
    b) Explain the thallus organization in different groups of algal organisms.