

**IV Semester M.Sc. Examination, July 2016**  
**MICROBIOLOGY**

**Course MB 4.3: Environmental Microbiology**

**Time: 3 Hours**

**Max. Marks: 80**

*Instruction: Answer all the sections.*

**SECTION – A**

**I. Answer any Four questions from the following: (4x5=20)**

1. Pyramid of number.
2. Flocculation.
3. Physical characteristics of the soil.
4. Septic tank
5. Nitrogen fixation.
6. Methanogens.

**SECTION – B**

**II. Answer any Three questions from the following: (3x10=30)**

7. Explain the different components of an ecosystem.
8. Describe the chlorination method of water disinfection.
9. What are the sources of microorganism in air?
10. Add a note on the air-sampling methods.
11. Explain the characteristics of psychrophiles.

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## SECTION – C

III. Answer any **Two** questions from the following:

(2x15=30)

12. Explain the nitrogen cycle.
13. Explain the process of municipal sewage treatment.
14. Give a detailed account of determination of sanitary quality of water.
15. Give an overview of different types of aquatic blooms.