

## **AE-794**

M. Sc. (Previous)  
Term End Examination, 2016-17

### **MICROBIOLOGY**

Paper - IV

Environmental Microbiology

*Time* : Three Hours]      [*Maximum Marks* : 100

[*Minimum Pass Marks* : 36

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**Note** : Answer **all** questions. All questions carry equal marks.

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#### **Unit-I**

1. Describe airborne bacterial diseases and its preventive measures.

**OR**

Write short notes on the following (any **two**) :

- (i) Droplet nuclei
- (ii) Assessment of air quality
- (iii) Airborne viral diseases

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(Turn Over)

( 2 )

**Unit-II**

2. What is Water Ecosystem ? Describe Pond Ecosystem.

**OR**

Write short notes on the following (any **two**) :

- (i) Estuaries
- (ii) Mangrooves
- (iii) Major water-borne diseases

**Unit-III**

3. What is microbial interaction ? Write in detail about positive interactions among microorganisms.

**OR**

Write short notes on the following (any **two**) :

- (i) Biofertilizers
- (ii) VAM
- (iii) Rhizosphere

**Unit-IV**

4. Discuss the biological liquid waste treatment.

**OR**

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Write short notes on the following (any **two**) :

- (i) Mushroom
- (ii) Composting
- (iii) Single cell protein

**Unit-V**

5. What is GMO ? Describe its impact on human being.

**OR**

Write short notes on the following (any **two**) :

- (i) Biodegradation
  - (ii) Biodeterioration
  - (iii) Bioaccumulation
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