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Credit Based VI Semester B.Sc. Degree Examination, May 2018

(Semester Scheme)

MICROBIOLOGY - VIII

BSCMBC355 : Environmental Microbiology, Biostatistics and  
Bioinformatics  
(Common to All)

Time : 3 Hours

Max. Marks

Instructions : 1) Answer both Part A and Part B.

2) Draw diagrams wherever necessary.

PART - A

Q1) Answer any ten of the following :

[10 × 2 =

- a) Aerosol
- b) Gastroenteritis
- c) Oxidation Pond
- d) Foot Note
- e) Dermatitis
- f) Slow sand filter
- g) Coliforms
- h) Swiss - Prot
- i) Rotorod sampler
- j) Durham's tube
- k) COD
- l) Zooplanktons

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**PART - B**

BSCN

Answer any four questions choosing one full question from each unit.

**UNIT - I**

- Q2)** a) Write a short note on Indoor microbial composition of Air.  
b) Discuss Anderson air sampler.  
c) Discuss on Bacterial Air Borne Diseases.

[4 + 4

OR

- Q3)** a) Write a short note on biofilter and bioscrubber.  
b) Explain the factors influencing air microflora.  
c) Discuss on viral air borne diseases.

[3 + 5

**UNIT - II**

- Q4)** a) Write a short note on sources of water.  
b) Discuss coagulation and Flocculation methods in water purification.  
c) Explain the distribution and types of microorganisms in water.

[4 + 4 +

OR

- Q5)** a) Write a short note on biomagnification.  
b) Write a note on MPN technique.  
c) Define pollution. Explain water pollution in detail.

[3 + 5 + 7