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**BSCMBC 382**

**Choice Based Credit System VI Semester B.Sc. Degree  
Examination, September 2022  
(2021 – 22 Batch Onwards)  
MICROBIOLOGY  
Environmental Microbiology**

Time : 3 Hours

Max. Marks : 80

**Instructions :** 1) Answer both Part – A and Part – B.  
2) Draw diagrams *wherever* necessary.

**PART – A**

Answer **any ten** of the following :

**(10×2=20)**

1. a) Droplet nuclei
- b) COD
- c) Space microbiology
- d) Xenobiotic
- e) Allergens
- f) Sewage
- g) Halophiles
- h) Bio-mining
- i) Rotorod
- j) Water pollution
- k) Bio-venting
- l) Gulliver experiment.

**P.T.O.**

**PART – B**

Answer **any four** questions choosing **one full** question from **each** Unit : **(4×15=60)**

**Unit – I**

2. a) Write a note on outdoor micro flora. **5**  
b) Explain the techniques of trapping air borne micro-organisms using Anderson Air Sampler and Portor impinge. **10**

OR

3. a) Write a note on fungal air borne diseases. **5**  
b) Discuss air pollution in detail. **10**

**Unit – II**

4. a) Write a note on trickling filters. **5**  
b) Explain the process of water. **10**

OR

5. a) Comment on any two water borne bacterial diseases. **5**  
b) Give an account on sanitary quality of water. **10**

**Unit – III**

6. a) Write a note on historical development of space microbiology. **5**  
b) Give a detailed account on thermopiles and their adaptations. **10**

OR

7. a) Comment on barophiles. **5**  
b) Explain acidophiles and alkalophiles and note on their adaptation. **10**

**Unit – IV**

8. a) Comment on biodegradation of petrol. **5**  
b) Explain ex-situ bio-remediation in detail. **10**

OR

9. a) Explain factors affecting bio-remediation. **5**  
b) Discuss degradation of pesticides. **10**
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