

AU-342

M.Sc. (Part-I) Semester-II (CBCS Scheme) Examination
ENVIRONMENTAL SCIENCE
(Environmental Microbiology)
Paper-VI

Time : Three Hours]

[Maximum Marks : 80

N.B. :- All questions are compulsory and carry equal marks.

1. Describe the methods for pure culture preparation. 16

OR

Describe the concept of pure culture. How pure culture is preserved ? Explain the method. 16

2. Explain in brief :
- (a) Significance of aquatic nutrient cycles. 5
 - (b) Role of microbes in Nitrogen Fixation. 5
 - (c) Fungal allergic disorders. 6

OR

- (d) Sewage microbial composition. 5
 - (e) Bacteriological Analysis of water. 5
 - (f) Carbon cycle as an aquatic nutrient cycle — explain. 6
3. Describe the procedure for microbial examination of milk and dairy products. 16

OR

Describe the methods for food preservation and processing. 16

4. Explain in brief :
- (g) Role of microbes in pharmaceuticals. 5
 - (h) Microbes in enzymes production. 5
 - (i) Industrial applications of micro organisms. 6

OR

- (j) Role of microbes in production of organic acids. 5
 - (k) Role of microbes in Alcoholic beverages. 5
 - (l) Microbes' role in production of amino acids. 6
 - 5. Describe in brief :
 - (m) Air borne diseases. 5
 - (n) Fungal diseases. 5
 - (o) Viral diseases. 6
- OR**
- (p) Immune disorder and its effect on human health. 5
 - (q) Soil borne diseases. 5
 - (r) Types of diseases. 6