

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

Time : Three Hours]

[Maximum Marks : 80

Note :— All questions are compulsory and carry equal marks.

1. Describe in brief :
 - (a) Types of culture 5
 - (b) Concept of pure culture 5
 - (c) Methods of sterilization and their significance. 6

OR

 - (d) Preservation of Microbial culture – any one method. 5
 - (e) Role of Microorganisms in Forests Ecosystem. 5
 - (f) Significance of Microbial mats. 6
2. Explain in brief :
 - (g) Role of microbes in biodegradation of industrial wastes. 5
 - (h) Air microflora and its role in allergic disorders. 5
 - (i) Enumeration of aeroallergens. 6

OR

 - (j) Role of Microbes in 'N' cycle. 5
 - (k) Role of soil microflora in soil fertility. 5
 - (l) Allergic disorders by pollen allergens. 6
3. Describe the methods for microbial examination of food. 16

OR

Describe the human diseases caused by food spoilage. 16
4. Describe the role of microorganisms in production of Enzymes and Alcohols. 16

OR

Describe the role of microorganisms in production of Alcoholic beverages and Organic acids. 16
5. Explain in brief :
 - (m) Water borne diseases 5
 - (n) Soil borne diseases 5
 - (o) Disease transmission sources. 6

OR

 - (p) Types of diseases 5
 - (q) Immune disorders 5
 - (r) Control of microbes by chemical agents. 6

