

Bachelor of Science (B.Sc.) Semester—III Examination**ENVIRONMENTAL SCIENCE (ENVIRONMENTAL MICROBIOLOGY & WATER TREATMENT)****Optional Paper—II**

Time : Three Hours]

[Maximum Marks : 50

N.B. :— (1) **ALL** questions are compulsory and carry equal marks.

(2) Illustrate your answer with suitable diagram.

1. Define Air Microflora. What are the sources of organism in air ? Write an informative note on 'Allergies'. 10

OR

- (a) Write an informative note on functions of microorganism in soil. 5
- (b) Discuss in brief water sampling. Discuss significance of Bacteriological analysis. 5
2. Write in detail about sources of water supply. 10

OR

- (a) Explain in brief methods of distribution of water. 5
- (b) Write an informative note on water borne diseases. 5
3. Describe in detail coagulation and sedimentation. 10

OR

- (a) Explain design and working of rapid sand filter. 5
- (b) Give a brief idea about pre-chlorination and post chlorination. 5
4. Describe in detail lime soda method of water softening. 10

OR

- (a) Write a short note on occurrence of fluoride in water. 5
- (b) Explain in brief desalination of brackish water. 5
5. (a) What is full form of WHO ?
- (b) What are alleroallergens ?
- (c) What is ICMR ?
- (d) Define epidemiology.
- (e) Enlist types of reservoir.
- (f) What is low cost sanitation ?
- (g) What is aeration ?
- (h) What do you mean by super chlorination ?
- (i) Give the types of filters.
- (j) Define reverse osmosis.
- (k) What is defluoridation ?
- (l) What is zeolite process ? 1×10=10