

U.G. 5th Semester Examination - 2021**ENVIRONMENTAL SCIENCE****[HONOURS]****Discipline Specific Elective (DSE)****Course Code : ENVS(H)DSE-P-01B/PR****[PRACTICAL]****(Ecotoxicology and Environmental Health)**

Full Marks : 20

Time : 2 Hours

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answer in their own words as far as practicable.*Answer **any two** of the following : 10×2=20

1. Write down the principle and procedure of bioassay of metal toxicity. State the phytotoxicity of germinating seeds using the following parameters of 15 germinating seeds:

4+6=10

Concentration of toxic metal (ppm)	Total number of germinated seeds
10	14
50	11
100	9
250	4
500	1
1000	0

2. Write down the principle and procedure of bioassay of antimicrobial activity. State the inference of using antimicrobial agent of the following result: 4+6=10

Concentration of antimicrobial agent (ppm)	Diameter of different inhibitory zone (cm)
25	1.2
50	1.4
75	1.6
100	1.8
150	2.3

3. Prepare a structured questionnaire of conducting epidemiological study on fluorosis in an urban slum area. 10
4. What are occupational health hazards? Prepare a structured questionnaire for assessing health risk of the workers of a chemical industry for handling hazardous wastes. 2+8=10

[Turn over]