

M.Sc. (Biotechnology) (CBCS Pattern) Sem-IV
PSBIT-114 - Applied Environmental Biotechnology & Ecology Paper-II

P. Pages : 1

Time : Three Hours



GUG/W/22/11352

Max. Marks : 80

Note : All questions carry equal marks.

1. Give details about Detection of pathogens in water using various laboratory methods. **16**

OR

a) Add a detailed note on Imvic test. **8**

b) Write in details about types & composition of waste water. **8**

2. Describe the treatment scheme for waste water arising from different industries in details. **16**

OR

a) Write a note on water treatment using Biofilms. **8**

b) Write the working principle of Trickling filter. **8**

3. What are xenobiotic compounds? Give details of Bio-degradation of hydrocarbons & pesticides. **16**

OR

a) Write a detailed note on Bio-remediation through methylation. **8**

b) Explain the process of Bio-leaching for heavy metals. **8**

4. What is Bio-diversity? Give details about Biotechnological methods of it's conservation. **16**

OR

a) Write a note on wild-life management. **8**

b) Explain protective & exploitative forestry. **8**

5. Write a note on-

a) Chemical oxygen demand (COD) **4**

b) Activated sludge. **4**

c) Heavy metal resistance in cyanobacteria. **4**

d) Land use planning & management. **4**
