

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

P. Pages : 1

Time : Three Hours



GUG/W/23/11352

Max. Marks : 80

1. Describe IMViC test in detail. **16**

OR

a) What is chemical oxygen demand? How it is measured? **8**

b) What are the different types of waste water? **8**

2. Describe the activated sludge process and rotating biological contactors in details. **16**

OR

a) Give the brief account of trickling filter. **8**

b) How is waste water treated by biofilms? **8**

3. Give in detail the process of bioleaching of cadmium and mercury. **16**

OR

a) Describe the biomethylation of arsenic. **8**

b) Give a brief account on genetic aspects of heavy metal resistance in cyanobacteria. **8**

4. Explain in detail the steps taken for the forest conservation. **16**

OR

a) Give the brief account on wildlife management tiger reserve in India. **8**

b) Write a note on ecological aspects of mining. **8**

5. Give an overview on.

a) Membrane filtration technique. **4**

b) Give the treatment scheme for sugar industries. **4**

c) Explain the advantages of bioleaching. **4**

d) Give the account on terrestrial mineral resources. **4**
