

Instructions: 1)Right side indicates the marks of the respective questions.
(2)Draw a neat labelled diagram if necessary.

- 1.(a) What is bioremediation? Discuss bioremediation of oil spoilage. 10
1.(b) Write a brief notes on bioleaching of ores. 04

OR

- 1.(a) What is bioleaching? Describe bioleaching of copper. 10
1.(b) Explain: Features and uses of bio gas. 04
2.(a) What is biotechnology? Explain its area and its applications. 10
2.(b) Write notes on :Transgenic animals. 04

OR

- 2.(a) Write on: Gene transfer mechanisms for animals and plants. 10
2.(b) Write notes on: Transgenic plants. 04
3.(a) Discuss about culturable and non-culturable bacterial diversity. 10
3.(b) Explain: Metagenomics 04

OR

- 3.(a) Discuss in detail about conservation. 10
3.(b) Write on Biodiversity indices. 04
4.(a) Discuss the types of bioindicators of environment. 10
4.(b) Explain: Bioleaching of Uranium. 04

OR

- 4.(a) Write on: vector mediated gene transfer mechanisms . 10
4.(b) Write a brief notes electroporation. 04
5.(a) Discuss the types of biosensors of environment 10
5.(b) Write on Impacts of molecular biology. 04

OR

- 5.(a) Discuss in detail about biogas production. 10
5.(b) Write a brief on Intellectual Property Rights. 04
