

M. Sc. DEGREE EXAMINATION, APRIL 2018
FOURTH SEMESTER

COURSE : ELECTIVE
PAPER : ENVIRONMENTAL BIOTECHNOLOGY
TIME : 3 HOURS

MAX. MARKS: 100

SECTION – A

ANSWER ALL THE QUESTIONS

(20 x 1 = 20)

1. What is Biobleaching?
2. What is Bioremediation?
3. What is Biodegradation?
4. What is Bioreactor?
5. What is Biochemical oxygen demand?
6. What is the source of air pollutants?
7. What is Bio monitoring?
8. Write disinfection of sludge
9. What is E-waste?
10. Name two enzymes which facilitate pulp bleaching.
11. What are viral pesticides?
12. What are the wastes? How they can be used as renewable source of energy.
13. Write the types of Biosensors.
14. Name two Genetically modified organisms used in waste management?
15. What is the metagenomics?
16. What is phytoremediation?
17. What is Biofuel?
18. What is Biohydrogen?
19. What is vermiculture?
20. What is Biofertilizer?

SECTION – B

ANSWER ANY FOUR QUESTIONS IN ABOUT 600 WORDS

(4 x 10 = 40)

21. Explain the types of Bioremediation methods.
22. Write the classification of air pollutants.
23. How are paper and pulp waste are effectively treated ?
24. Explain on Genetic sensors.
25. How is Biomass converted into a source of energy.
26. Explain Vermiculture process.
27. How is wastewater treated by Anerobic digestion ?

SECTION – C

ANSWER ANY TWO QUESTIONS IN ABOUT 1500 WORDS

(2 x 20 = 40)

28. Explain Biodegradation of aliphatic and aromatic hydrocarbons and halogenated compounds.
29. Explain activated sludge process.
30. Explain (a) Solid waste material (b) Radioactive waste and nuclear waste material are safely removed from the environment.
31. Explain the production of Bioethanol and Biohydrogen.
