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BTH 552

Fourth Semester M.Sc. Degree Examination, September/October 2022

BIOTECHNOLOGY

(CBCS)

Environmental Biotechnology

Time : 3 Hours

Max. Marks : 70

PART – A

1. Write short notes on **any ten** of the following (**not** exceeding **1** page **each**) :

(10×2=20)

- a) Non-conventional energy sources.
- b) Pesticide transport in the environment.
- c) Photochemical smog.
- d) Microbial indicators.
- e) Bioremediation.
- f) Biodegradation of hydrocarbon.
- g) Microbial deterioration in textiles.
- h) Biomagnification.
- i) Coastal Regulatory Zones.
- j) Parameters of waste water as per KSPCB.
- k) Incineration.
- l) Bioreactors.

PART – B

Write explanatory notes on **any five** of the following (**not** exceeding **3** pages) :

(5×6=30)

2. Degradation of alicyclic hydrocarbons.

3. Algae as a pollution indicator.

P.T.O.



4. Different types of bioleaching.
5. Working procedure of biogas plant.
6. Different techniques of organic composting.
7. Hazardous wastes treatment.
8. Role of bacteria in metal extraction.

PART – C

Write long answers on **any two** of the following (**not** exceeding **7** pages) : **(2×10=20)**

9. Explain the scope of marine biotechnology.
 10. Elaborate on the environmental impacts of usage of natural products.
 11. Discuss biological treatment of liquid wastes.
 12. Give an overview of biodegradation of organic compounds.
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