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10BT841

Eighth Semester B.E. Degree Examination, Aug./Sept.2020
Environmental BT

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions, selecting atleast TWO questions from each part.

PART – A

- 1 a. Give a detailed note on microbial flora of soil. (08 Marks)
b. Discuss in detail about characteristics of Xenobiotics. (12 Marks)
- 2 a. Explain the relationship of Bio – accumulation with chemical structure. (10 Marks)
b. Discuss the methods for measuring Bio – accumulation. (10 Marks)
- 3 a. Describe Unit operations, design and modeling of activated sludge process. (10 Marks)
b. Explain Microbial process for removing phosphorous and Nitrogen. (10 Marks)
- 4 a. Explain the concepts of Solid Waste Management through biotechnological process. (10 Marks)
b. Write a note on : i) Treatment of petroleum waste ii) Dairy wastes. (10 Marks)

PART – B

- 5 a. Discuss modern fuels and their environmental impacts. (10 Marks)
b. Explain biofuel production from plant sources. (10 Marks)
- 6 a. Write the process involved in production of oil from wood waste. (10 Marks)
b. Give a detailed note on metal and phosphate recovery from microbes. (10 Marks)
- 7 a. Write the process of Bio – remediation using microbes. (10 Marks)
b. Explain Bioindicators and Bio – films. (10 Marks)
- 8 a. Discuss different approaches to Bio resource conservation. (10 Marks)
b. Explain role of Biotechnological process in bioresource assessment. (10 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.