

# CBCS SCHEME

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18PC35

## Third Semester B.E. Degree Examination, July/August 2022 Introduction to Petrochemical Engineering

Time: 3 hrs.

Max. Marks: 100

**Note: Answer any FIVE full questions, choosing ONE full question from each module.**

### Module-1

- 1 a. Explain characteristics of Petrochemical Industry. (10 Marks)  
b. Name and explain major companies in India. (10 Marks)

OR

- 2 a. Explain the role of Petrochemical Engineer in oil Industry. (10 Marks)  
b. Explain briefly on Composition of Crude oil. (10 Marks)

### Module-2

- 3 a. Write a note on Organic theory and Inorganic theory. (10 Marks)  
b. Explain basic concept of Petroleum Geology. (10 Marks)

OR

- 4 a. Explain briefly on Rock properties. (10 Marks)  
b. Write a note on Hydrocarbon Accumulation. (10 Marks)

### Module-3

- 5 a. Explain briefly types of fuels and their characteristics. (10 Marks)  
b. Write a note on classification of Crude Oil. (10 Marks)

OR

- 6 a. Write a note on classification of Petroleum products. (10 Marks)  
b. Explain Unit operations involved in Petroleum products refining and Processing. (10 Marks)

### Module-4

- 7 a. Explain briefly on functions of Drilling muds. (10 Marks)  
b. Write a note on Drill bit orifices. (10 Marks)

OR

- 8 a. Write a note on important factors in selecting drill Collar size. (10 Marks)  
b. Explain briefly on Drill Pipe assembly. (10 Marks)

### Module-5

- 9 a. Write a note on types of Enhanced Oil recovery. (10 Marks)  
b. Write difference between Primary and Secondary extraction of oil. (10 Marks)

OR

- 10 a. Explain the major products of Oil refining. (10 Marks)  
b. Explain Unconventional sources of Oil. (10 Marks)

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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.