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Total Number of Pages : 01

M.TECH

AR-19

M.TECH 1<sup>ST</sup> SEMESTER EXAMINATIONS NOV/DEC 2019

CHEMICAL-MPECH1042

ENHANCED OIL RECOVERY

Time: 3 Hours

Max Marks : 70

The figures in the right hand margin indicate marks.

PART-A

(10 X 2=20 MARKS)

1. Answer the following questions.

- Illustrate the microscopic aspects of displacement?
- Write short note on polymer flooding?
- Differences between in-situ combustion technology and microbial method for oil recover?
- Describe the alkaline flooding method?
- Describe the precipitation and deposition of Asphaltenes?
- What are the advantages of microbial method in enhanced oil recovery operations?
- Distinguish the primary and secondary product in enhanced oil recovery?
- Explain about the typical reservoir hydrocarbon P-T Phase diagram?
- Describe the precipitation and deposition of paraffin?
- What are the various methods for residual oil recovery?

PART-B

(5 X 10=50 MARKS)

Answer any five questions from the following.

- Explain in detail about residual oil magnitude and prevention of trapping?
- Explain the process of wettability and procedure of residual oil recovery?
- Discuss briefly about carbon flooding?
- Explain briefly about optimum time to initiate gas injection operations?
- Explain briefly about gas injection in oil reservoirs?
- Describe the scaling problems in enhanced oil recovery?
- Explain the precipitation and deposition of Asphaltenes and Paraffins?

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