

# CBCS SCHEME

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18PC52

## Fifth Semester B.E. Degree Examination, Feb./Mar. 2022 Well Drilling Equipments and Operation

Time: 3 hrs.

Max. Marks: 100

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

### Module-1

- 1 a. Write functions of Drilling Muds. (10 Marks)  
b. Explain Safety aspects of handling brines. (10 Marks)

OR

- 2 a. Explain briefly on testing of Drilling systems. (10 Marks)  
b. Write a note on Drill String Inspection Procedure. (10 Marks)

### Module-2

- 3 a. Write a note on Bottom hole pressure and Injection pressure. (10 Marks)  
b. Explain briefly on Stable Foam drilling. (10 Marks)

OR

- 4 a. Explain Tangential method. (10 Marks)  
b. Explain Radius of Curvature method. (10 Marks)

### Module-3

- 5 a. Explain with neat sketch on Pressure Control Equipment. (14 Marks)  
b. Explain Maximum Casing pressure is required for selection of the Kick Control Technique. (06 Marks)

OR

- 6 a. Explain briefly on Health , Safety and Environment related drilling issues. (15 Marks)  
b. Write a note on Post Run Evaluation. (05 Marks)

### Module-4

- 7 a. Explain Junk Retrieval Operations. (10 Marks)  
b. Explain Seven options to be considered prior to parting the pipe. (10 Marks)

OR

- 8 a. Write a note on Conductor String and Surface Casing. (10 Marks)  
b. Write a note on Drifting of Casing. (10 Marks)

### Module-5

- 9 a. Explain briefly on causes of Tubing trouble. (10 Marks)  
b. Write a note on Packers. (10 Marks)

OR

- 10 a. Write a note on Application for Permit to Drill (APD). (12 Marks)  
b. Write a note on : (08 Marks)  
i) Toxicity ii) Ignitability.

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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.