

Register No.:

550

April 2024

Time – Three hours
(Maximum Marks: 100)

- [N.B. 1. Answer all questions under Part-A. Each question carries 3 marks.
2. Answer all the questions either (A) or (B) in Part-B. Each question carries 14 marks.]

PART – A

1. State the importance of drilling.
2. What are the different types of drilling fluids?
3. List the advantages of drilling hydraulics.
4. What is the purpose of a well control?
5. What is casing string in drilling?
6. What is a rig site?
7. What are the functions of cementing?
8. What are the ingredients in oil well cement?
9. What is directional drilling?
10. What are the steps involved in Open-hole completion?

[Turn over.....

PART - B

11. (a) Compare cable tool drilling and rotary drilling in detail.
(Or)
(b) Write short notes on (7+7)
(i) Special types of mud (ii) Components of rotary drilling rig.
12. (a) Write about the following: (7+7)
(i) Warning signal of kicks (ii) Kick detection equipment.
(Or)
(b) Explain about the fluid Flow through drill bits.
13. (a) Explain the classifications and properties of casing.
(Or)
(b) Mention the types of casing string. Also explain about the manufacture of casing.
14. (a) What is oil well cement? Explain its applications.
(Or)
(b) Explain about the types of cementing.
15. (a) Explain about ERD and CTD.
(Or)
(b) Discuss the factors influencing well completion design.
