



C20-PET-404

7488

BOARD DIPLOMA EXAMINATION, (C-20)

OCTOBER/NOVEMBER—2023

DPET – FOURTH SEMESTER EXAMINATION

WELL LOGGING AND FORMATION EVALUATION

Time : 3 Hours]

[Total Marks : 80

PART—A

3×10=30

- Instructions :** (1) Answer **all** questions.
(2) Each question carries **three** marks.
(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. What is cementation factor?
2. Write a short note on well logs.
3. Define the term coring.
4. Write a short note on side wall coring.
5. Write about the uses of electrical logging.
6. Write a short note on resistivity logging.
7. Write about bulk density.
8. List out the uses of density tools.
9. Write down the applications of image logs.
10. Write a short note on variable density log.

- Instructions :** (1) Answer **all** questions.
(2) Each question carries **eight** marks.
(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. (a) Explain briefly about well log header.

(OR)

(b) Explain about bore hole temperature and bore hole pressure.

12. (a) Explain about the types of coring methods.

(OR)

(b) Explain about the analyzation of core samples.

13. (a) Explain about conventional resistivity logs.

(OR)

(b) Explain about the origin of self-potential logging with a neat sketch.

14. (a) Explain briefly about neutron porosity logs and its applications.

(OR)

(b) Explain briefly about sonic logs and its applications.

15. (a) Explain about the procedure of calliper logging.

(OR)

(b) Discuss about the types of cased hole logs.

PART—C

10×1=10

- Instructions :** (1) Answer the following question.
(2) The question carries **ten** marks.
(3) Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer.

16. How we measure the porosity of the formation? Explain the methods suitable to measure porosity.

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