

Roll No.

Total Pages : 2

CMDQ/D-23

5219

WELL LOGGING

Paper-GT-901

Time allowed : 3 Hours]

[Maximum Marks : 100

Note : Attempt **five** questions in all, selecting **one** question from each unit. Questions No. **1** is compulsory. All questions carry equal marks.

Compulsory Question

1. Write notes on the following: 4×5 =20
 - (a) Measurement While Drilling.
 - (b) Flushed Zone.
 - (c) Effective porosity.
 - (d) Sequence Stratigraphy

UNIT-I

2. Write a note on relation of Geophysics and Geology in context of Well Logging. 20
3. Explain following logs with neat and clean diagram:
 - (a) Spontaneous Potential Log. 10
 - (b) Caliper Log. 10

UNIT-II

4. What is the principle of electrical logging and its uses. 20

5. Write short notes on the following: 2×10=20

- (a) Lateral Log.
- (b) Resistivity Logging.

UNIT-III

6. Write about gamma ray logging and about its principle and tools. 20
7. Write short notes on the following : 2×10=20
 - (a) Neutron Log.
 - (b) Sonic Logging.

UNIT-IV

8. Explain Temperature Logging and its application in petroleum geology. 20
9. Write short notes on the following: 2×10=20
 - (a) Permeability Estimation.
 - (b) Clastic Reservoirs.