

[illegible]

- a) What do you mean by primary migration?
- b) Define well kick.
- c) Define Exploratory Well. When is it drilled?
- d) Name the different types of drilling fluid.
- e) What are the functions of cement?
- f) What is PDC bit?
- g) What are the advantages of oil based mud?
- h) What is the use of guide shoe and float shoe?
- i) What do you understand by kick off point?
- j) Explain the different types of well profile.

SECTION-B

2. What do you mean by cap rock? What are its functions? Explain the different types of trapping mechanism.
3. Explain Well Planning in detail with the help of a flowsheet.
4. What do you mean by drilling fluid? What is the function of drilling fluid? Explain the additives used in drilling fluid.
5. Explain the different types of cementing operations.
6. Explain the hoisting system of drilling rig.

SECTION-C

7. Write notes on :
 - a) Reservoir rock and source rock.
 - b) Types of migration.
8. Draw a diagram of a drilling rig and label and explain all its' component.
9. What is oil spill? What is its environmental impact? What are the different methods of controlling and minimizing oil spill?