



21102429

QP CODE: 21102429

Reg No : .....

Name : .....

**B.Sc DEGREE (CBCS) EXAMINATIONS, OCTOBER 2021**

**First Semester**

B.Sc Chemistry Model III Petrochemicals

**Core Course - CH1PCT01 - PETROLEUM GEOLOGY**

2017 Admission Onwards

35564BEA

Time: 3 Hours

Max. Marks : 60

**Part A**

*Answer any **ten** questions.*

*Each question carries **1** mark.*

1. What is Engler's theory on origin of Petroleum?
2. What is meant by catagenesis?
3. Discuss about in situ transformation of petroleum.
4. What do you mean by contingent resource?
5. What do you mean by migration in petroleum geology?
6. What is fault trap?
7. What is meant by core sampling?
8. What are the non-hydrocarbon compounds in crude oil?
9. Name any two metallic constituents in crude oil?
10. What is LPG bullet?
11. Unpleasant odour in crude oil is mainly due to the presence of .....
12. Give the expansion of LVGO and HVGO

(10×1=10)

**Part B**

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Summarize the establishment of source beds.
14. Explain the thermal alterations taking place in the reservoir.
15. Explain the concept of migration of hydrocarbon from source beds to reservoir and the factors affecting it.



16. Explain the mechanics of migration, entrapment and accumulation of hydrocarbon.
17. Explain natural methods of oil recovery.
18. Discuss the liquefaction of coal.
19. Write a short note on Transportation of crude oil.
20. Discuss about LPG storage tank
21. Discuss cone roof storage tank. What are its advantages?

(6×5=30)

**Part C**

Answer any **two** questions.

Each question carries **10** marks.

22. Classify different theories of origin of petroleum and discuss them in detail.
23. Explain the genesis of various types of traps.
24. Discuss in detail the techniques used in bore hole logging for the geophysical exploration of crude oil.
25. Briefly explain different types of crude oil distillation.

(2×10=20)