



19103029

QP CODE: 19103029

Reg No :

Name :

B.Sc.DEGREE(CBCS)EXAMINATION, NOVEMBER 2019

First Semester

B.Sc Chemistry Model III Petrochemicals

Core Course - CH1PCT01 - PETROLEUM GEOLOGY

2017 Admission Onwards

B1AF9BBA

Time: 3 Hours

Maximum Marks :60

Part A

*Answer any **ten** questions.*

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

1. What is the Modern theory on origin of Petroleum ?
2. How will you account for the establishment of source beds?
3. List out two organic compounds present in source beds.
4. What do you mean by migration in petroleum geology?
5. Mention the different mechanisms which affect primary migration.
6. Define anticline trap.
7. Explain density logging.
8. What is secondary recovery of crude oil?
9. Name any two basic component present in crude oil.
10. What is nitrogen blanketing?
11. Crude oil is separated into useful products by.....
12. What is meant by LAN?

(10×1=10)

Part B

*Answer any **six** questions.*

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

13. Discuss any two biogenic theories of origin of petroleum.
14. Explain in situ transformation of petroleum in reservoirs.
15. Explain hydrocarbon migration.
16. Explain structural trap with figure.





17. What are the different methods of oil exploration?
18. Explain the elemental composition of crude oil.
19. Write a short note on Transportation of crude oil.
20. Assess double pipe heat exchangers and plate and shell heat exchangers.
21. Write a short note on aviation fuels.

(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. Write a note on oil resource and reserves.
24. Explain bore hole logging and seismic survey for oil exploration.
25. Explain the manufacture, properties and uses of Diesel, Asphalt, Naphtha and LPG.

(2×10=20)

