



23104203

QP CODE: 23104203

Reg No :

Name :

**B.Sc DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE
EXAMINATIONS, JANUARY 2023**

Third Semester

B.Sc Chemistry Model III Petrochemicals

**Core Course - CH3PCT03 - PRODUCTION AND APPLICATION OF COMPOUNDS
FROM PETROLEUM**

2017 Admission Onwards

0658209D

Time: 3 Hours

Max. Marks : 60

core

Part A

*Answer any **ten** questions.*

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

1. What is the major constituent of natural gas?
2. Name any one example for petroleum coke
3. What is meant by decoking process?
4. Write any one method used for the production of nitro ethane.
State True or False
5. Ammoxidation is an industrial process for the production of aldehyde.
6. Identify the uses of Oxo process.
7. Analyze the problems caused by the paraffin hydrates during the refining of petroleum.
State True of False
8. Aldox process can be used for the preparation of higher hydrocarbons.
9. What is Aldol condensation?
10. Identify any product formed using Dow chemical process.
11. What do you mean by basic oxides?
12. Thermoplastics are very useful in the manufacture of Mobile Phone Casings. Name a thermoplastic used for this purpose.

(10×1=10)





Part B

Answer any **six** questions.

Each question carries **5** marks.

13. What is visbreaking? what are its advantages?
14. Why hydrogen is considered as the fuel of tomorrow?
15. Explain aldol condensation with a suitable example.
16. What are amphoteric oxides?
17. Explain gas hydrates
18. Develop a method for the preparation of ethanol using catalytic hydration.
19. How is acetylene manufactured?
20. Explain addition polymerisation using an example.
21. Distinguish between thermo plastics and thermosetting plastics.

(6×5=30)

Part C

Answer any **two** questions.

Each question carries **10** marks.

22. Explain the preparation of hydrogen from naphtha cracking and by partial oxidation of hydrocarbon. Discuss the application of hydrogen in chemical industry and their uses.
23. Explain the following with suitable examples and uses:-
(a) Ammoxidation (b) Hydration (c) Hydroformylation (d) Hydrogenation
24. Discuss briefly on steam naphtha cracking of Hydrocarbon.
25. Discuss the different moulding techniques used for moulding plastics into articles? Discuss each type in detail.

(2×10=20)

