



QP CODE: 24026881



24026881

Reg No :

Name :

**B.Sc DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE
EXAMINATIONS, OCTOBER 2024**

Third Semester

B.Sc Chemistry Model III Petrochemicals

Core Course - CH3PCT04 - MANUFACTURE OF PETROCHEMICALS-I

2017 Admission Onwards

E8AED36E

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. Write the chemical equation when methanol react with aluminium.
2. What are the properties of carbon black?
3. Which carbon black is formed by the exothermic decomposition of acetylene?
4. Write the physical properties of hydrogen cyanide.
5. Which chloromethane is used in plastic welding?
6. Write the formula for chloroform.
7. Which compound is used in the fumigation of airtight storage warehouses?
8. Which compound is used for the carburation of steel?
9. Name the compound used for producing tetraethyl lead.
10. Which catalyst is used in the hydrogenation of acetylene?
11. Write the chemical equation for the oxidation of alcohol.
12. Name the material used as a pigment and reinforcing phase in automobile tires.

(10×1=10)

Part B

*Answer any **six** questions.*

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





13. What is hydration? Explain the hydration method in the production of methanol.
14. What is shawinigan process? Explain.
15. Chlorinated methanes are used chiefly as precursors. Explain.
16. What are the uses of methyl di chloride?
17. What are the uses of ethanol?
18. What is chlorohydrin process? What is the product obtained?
19. What are the main uses of monoethanol amine?
20. Write the structure and properties of acetic acid?
21. What are the uses of styrene?

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **10** marks.*

22. Explain the BMA process for the production of HCN.
23. What are the raw material for the production of acetylene? Explain the production of acetylene with flow chart.
24. Write and explain different manufacturing process of ethanol.
25. Explain the production of acrylonitrile by ethylene+hydrogencynaide with flow chart.

(2×10=20)

