



21101944

QP CODE: 21101944

Reg No :

Name :

B.Sc DEGREE (CBCS) EXAMINATION, AUGUST 2021

Third Semester

B.Sc Chemistry Model III Petrochemicals

Core Course - CH3PCT04 - MANUFACTURE OF PETROCHEMICALS-I

2017 Admission Onwards

5CB8CDAF

Time: 3 Hours

Max. Marks : 60

Part A

Answer any **ten** questions.

Each question carries **1** mark.

1. Which alcohol is termed denatured spirit?
2. Write the chemical equation for steam methane reforming reaction.
3. Name the material added to natural rubber to decrease the electrical resistance.
4. Name the material used as a pigment and reinforcing phase in automobile tires.
5. Write the positive aspects of hydrogen cyanide.
6. Give the expanded form of R22.
7. How methyl dichloride is manufactured?
8. Which compound is used for the carburization of steel?
9. Name the compound used for producing tetraethyl lead.
10. Which compound is used in the absorption of carbon dioxide?
11. Write the chemical equation for the oxidation of alcohol.
12. Which is the organic additive in the grinding of cement clinker?

(10×1=10)

Part B

Answer any **six** questions.

Each question carries **5** marks.

13. Write the chemical equation when methane and ammonia reacts in presence of oxygen.



14. What is shawinigan process?explain.
15. Write the reaction mechanism of chlorination of methane.
16. Explain the method to produce carbon tetrachloride.
17. Explain. the method to produce carbon disulphide.
18. Explain the manufacture of ethyl chloride by hydrochlorination.
19. Explain the manufacture of ethylene oxide by oxidation.
20. What are the uses of acetic acid?
21. Write the chemical equations for the production of vinyl acetate.

(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. Explain the manufacture of ethylene glycol through chlorohydrin manufacturing process with flow chart.
25. Explain the production of vinyl chloride with flow chart.

(2×10=20)