

E 1487

(Pages : 2)

Reg. No.....

Name.....

B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, MARCH 2015

Fourth Semester

Core Course—MANUFACTURE OF PETROCHEMICALS—II

(B.Sc. Petrochemicals)

[2013 Admissions]

Time : Three Hours

Maximum : 60 Marks

Part A

*Answer all questions.
Each question carries 1 mark.*

Give the expanded form of (1 – 4) :

1. TPBS.
2. BTX.
3. STPP.
4. HDPE.
5. Give one of chloroprene.
6. Name one surfactant.
7. The chemical name of neoprene.
8. Important constituent of eco-friendly detergents.

(8 × 1 = 8)

Part B

*Answer any six questions.
Each question carries 2 marks.*

9. How is acrolein converted into Glycerine ?
10. Give any *two* uses of Glycerine.
11. What is Cumene ?
12. Name the raw material used for the preparation of vinyl chloride. How is it prepared ?
13. Explain the important physical properties of acetaldehydes.
14. Distinguish between chloroprene and neoprene.
15. What are the different applications of budadiene ?

Turn over

16. What is SBR ? How is it prepared ?
17. Differentiate between soap and detergent.
18. What is Saponification ?

(6 × 2 = 12 marks)

Part C

*Answer any four questions.
Each question carries 4 marks.*

19. Explain the preparation and uses of isopropanol.
20. What is synthetic glycerine? How is it prepared?
21. Discuss the uses and preparation of acetaldehyde.
22. Give the uses and preparation of neoprene.
23. How is detergent manufactured ?
24. Explain the cleansing action of soap.

(4 × 4 = 16)

Part D

*Answer any two questions.
Each question carries 12 marks.*

25. Explain with neat flow chart of the manufacture of cumene from propylene ? What are the important uses of cumene ? How is it purified ?
26. Explain the following :—
 - (a) Manufacture of vinyl chloride.
 - (b) manufacture of chloroprene.
27. With a neat flow chart explain the manufacture of butadiene from C-4 hydrocarbons of extractive distillation processes.
28. Explain the uses and manufacture of naphthalene.

(2 × 12 = 24)