



K26U 1012

Reg. No. :

Name :

IV Semester B.Sc. Degree (C.B.C.S.S. – O.B.E. – Supplementary/
Improvement) Examination, April 2026
(2020 to 2023 Admissions)
CORE COURSE IN CHEMISTRY/POLYMER CHEMISTRY
4B06 CHE/PCH : Organic Chemistry – II

Time : 3 Hours

Max. Marks : 40

SECTION – A

Very short answer type. Each carries 1 mark. Answer all 4 questions.

1. Define Saytzeff rule.
2. What is Wurtz reaction ?
3. Convert Benzene to Cumene.
4. Convert Acetaldehyde to Ethane.

(4×1=4)

SECTION – B

Short answer type. Each carries 2 marks. Answer 7 questions out of 10.

5. Illustrate Markownikoff's rule.
6. Explain Chugaev reaction.
7. Explain the Oxidation of Propyne with selenium dioxide.
8. Explain Kolbe's electrolytic method.
9. What is Diazotisation reaction ?
10. Explain Gattermann-Koch reaction.
11. What is Fries rearrangement ?
12. How will you distinguish between acetaldehyde and Acetone ?
13. What is MPV reduction ?
14. What is Benzoin condensation ?

(7×2=14)

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SECTION – C

Short essay/problem type. Each carries 3 marks. Answer 4 questions out of 6.

15. Explain the stereochemistry of SN1 reaction.
16. Discuss the synthesis of Anthracene.
17. Discuss the addition elimination mechanism of aromatic nucleophilic substitution reaction.
18. Explain Victor Mayers test.
19. Explain the mechanism of Perkin reaction.
20. What are the main postulates of Bayers strain theory ?

(4×3=12)

SECTION – D

Long essay type. Each carries 5 marks. Answer 2 questions out of 4.

21. Discuss the factors affecting the reactivity of alkyl halides in SN2 reactions.
22. Discuss the ozonolysis of alkene.
23. Explain the following reactions with mechanism Benzil Bezilic acid rearrangement and Knoevenagel reaction.
24. Explain the preparation and any three important reactions of glycerol. (2×5=10)