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III Semester B.Sc. Degree (CCSS – 2014 Admn. – Regular)

Examination, November 2015

Core Course in Chemistry

3B04 CHE: ORGANIC CHEMISTRY – I

OVI. ROS

Time: 3 Hours Max. Marks: 40

## SECTION - A

(Answer all questions. Each question carries one mark.)

- 1. How is picric acid prepared?
- 2. Give the structure 3,3-dimethylbut-1-yne and 4-hydroxy-4-methyl-2-pentanone.
- 3. What is wurtz reaction?
- 4. What are nitrenes?

 $(4 \times 1 = 4)$ 

## SECTION-B

(Answer any seven questions. Each question carries 2 marks.)

- State Saytzeff rule and predict the product when 2-bromobutane treated with KOH and ethanol.
- 6. Why chloroacetic acid is more stronger than acetic acid?
- 7. How is glycerol synthesised from propylene?
- 8. Explain Kolbes electrolytic process.
- 9. How do you account for the relative stability of primary secondary and tertiary carbonium ion?
- 10. What is Freund's reaction?
- 11. What are homolysis and heterolysis?



12.	How can you prepare chloroform from acetone?	
13.	What are the products formed when 1, 1-dicloro ethane is treated with aqueous KOH and alcoholic KOH?	
14.	Explain the hybridization of carbon in ethene. (7x2=14	l)
	SECTION-C	
(An	swer any 4 questions. Each question carries 3 marks.)	
15.	How are dienes classified?	
16.	What are carbines? How are they generated?	
17.	Explain the mechanism of dehydration of alcohols.	
18.	Write a note on additions reactions of alkenes.	
19.	Explain Victormeyers test.	
20.	Comment on the acidity of phenol. (4×3=12	2)
	SECTION - D	
(Ar	nswer any 2 questions. Each question carries 5 marks.)	
21.	Discuss the mechanisms of a) Claisen rearrangement b) Pinacole-pinacolone rearrangement.	5
22.	Discuss the mechanisms and stereochemistry of SN1 and SN2 reactions of	
	alkylhalides.	5
23.		
	a) Inductive effect.	2
	b) Hyper conjugation.	2
	c) Resonance effect.	1
24.		1
	b) Outline the synthesis of naphthalene and anthracene.	4
	(2×5-1)	10