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B. Sc. DEGREEE (C.B.C.S.S) EXAMINATION, APRIL 2018 (2014 Admission Supplementary) SEMESTER IV – CORE COURSE (CHEMISTRY) CHE4BOC - BASIC ORGANIC CHEMISTRY - I		
Tin	me: Three Hours Ma	ximum Marks: 60
	PART A	
I	Answer all questions. Each question carries 1 mark.	
1. 2. 3. 4. 5. 6. 7.	What is Lucas reagent. What are epoxides? What is active methylene group? Draw the structure of phenanthrene Give the product of ozonolysis of naphthalene. Draw the structure of coumarin. Explain the polarity of carbonyl group. What is meant by reformatsky reaction?	
	PART B	(8x1=8)
II Answer any six questions. Each question carries 2 marks		
9. 10. 11. 12. 13. 14. 15.	 Write a note on 1°, 2°, 3° alcohols. Explain a method for preparation of semicarbazide. How will you distinguish between acetamide and urea? How will you convert benzene sulphonic acid to benzene. Discuss the structure of carboxylate ion. Explain the reaction between Grignard reagents and carbonyl composite to the condensation. 	unds
10.	What is meant by resorcinol? Give one application	(6x2=12)
PART C		
III	Answer any four questions. Each question carries 4 marks	
18.	 How is 1°, 2°, 3° alcohols separated. Write the mechanism of acid and base catalysed cleavage of epoxides What is H-V-7 reaction? Give its mechanism 	

- 19. What is H-V-Z reaction? Give its mechanism.
- 20. Amides are much weaker baes than amines, why?
- 21. Write any four differences between aliphatic and aromatic aldehydes.
- 22. Briefly explain decarboxylation
- 23. Explain Claisen scmidt reaction with mechanism.
- 24. Compare aldehydes with ketones using any four reactions.

(4x4=16)

1 P.T.O.

PART D

IV Answer any two questions. Each question carries 12 marks

- 25. Write an essay on the reduction reactions of aldehydes and ketones.
- 26. (a) Explain two synthetic applications of malonic ester.
 - (b) How will you prepare anthranalic acid? Discuss any three chemical properties.
- 27. a) Explain the effects of substituent's on acid strength on acid strength of aliphatic carboxylic acids.
 - b) Briefly explain preparation, properties of benzene sulphonyl chloride
 - c) Briefly explain preparation and importance of acetic anhydride
- 28. Write an essay on Grignard reagents

(2x12=24)