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		K23U 1108
Reg. No. :		
CORE COURSE IN C	CBCSS – OBE – Regular/ S nt) Examination, April 2023 Admission Onwards) HEMISTRY/ POLYMER CHE CH: Organic Chemistry – I	MISTRY
Time : 3 Hours		Max. Marks: 40
Instruction: Answer the	questions in English only.	
	SECTION - A	
Very short answer type - Each ca	rries 1 mark - Answer all 4 que	estions.
Name the product obtained who benzoyl peroxide.		he presence of
Lindlar's catalyst is Reproductively and the second seco		
Benzaldehyde and benzopheno Borsche's reagent is		test.
	No. of the Control of	(4×1=4)
	SECTION - B	
Short answer type – Each carries 2 5. In SN ₁ reaction racemisation occu. Why 2		
Why? 6. What is Saytzeff rule? Explain w		Iden inversion.
7. How will you synthesize propene		
, , , , , , , , , , , , , , , , , , , ,	mom propyr accorder?	
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K23U 1108	-2-	
8. Write the product in the following	g reaction .	
a) H ₃ C CH ₃ KMnO ₄ ?		
CH ₃ 1, O ₃		
b) H ₃ C 2. H ₂ O, Zn 9. What is Hoffman elimination read		2
What is Hollman elimination reaction. How will you synthesize anthrace.		
11. Give any one method for the syn		
12. What is Lucas method?		
13. Explain the method for the isolat	tion of glycerol from fat and oils	
14. Why phenol is more acidic than		(7×2=14)
<	SECTION - C	
Short essay/ problem type questions	. Each question carries 3 mark	s. Answer any
4 questions out of 6.		
15. Write short note on :a) Pinacol-Pinacolone rearrange	ement	
b) Claisen rearrangement.		
 Suggest any two method for the name reactions for the conversion 		ne. Identify the
17. What is Borsch's reagent ? How using Borsch's reagent test ?	will you distinguish benzaldehy	de and phenol
18. How will you convert phenol to		
a) Salicylaldehyde,b) Salicylic acid ?		
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	-3-	K23U 1108
 What are the reaction condition bromide? Identity the reactions mechanism. 	ns to get propene and propyl alo s as SN ₂ and E ₂ . Rationalize any	ohols from propyl one with suitable
20. Explain Haworth synthesis of a	naphthalene.	(4×3=12)
	SECTION - D	
Long essay type - Each carries 5	marks. Answer any 2 question	s out of 4.
21. a) Explain Chuagaev reaction b) What is Kharasch effect 2.5		2
22. a) What is ozonolysis?	How does it differ from Markow	nikoff addition ? 3
	oduces acetone in ozonolysis. W	rite the complete
23. a) What is Tollen's reagent? functional group detection of	of organic compounds? Illustra	3 Hen's reagent in attention to the state of
examples (Scheme required	d).	3

b) Explain another test for the detection of an aldehyde functional group in organic molecules.

24. How will you synthesis 1°, 2°, 3° alcohols from carbonyl compound ? Explain with suitable examples.

2

(2×5=10)