

## SECTION - C

- 13. Explain the mechanism of Cannizzaro reaction.
- 14. Give an account of sulpha drugs.
- 15. How do you distinguish between primary, secondary and tertiary nitroalkanes?
- 16. Write notes on synthetic uses of Grignard reagent.
- 17. Compare the basicity of pyrrole, pyridine and piperidine.
- 18. Draw the Fischer projection and Haworth structure of glucose and fructose.

(Weightage: 4x2=8)

## SECTION-D

- 19. Write the mechanism of the following reactions.
  - i) Wolf rearrangement
  - ii) Bezoin condensation
  - iii) Beckmann rearrangement.
- 20. Illustrate the Killiani-Fischer synthesis for lengthening of the carbon chain in aldoses.
- 21. Describe any two methods for the synthesis of amino acids. (Weighatge 2x4=8)

c) Butane



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		Examina CORE COUR	e (CCSS – Reg./Suppl ation, May 2015 RSE IN CHEMISTRY rganic Chemistry – II	e./Improv.)			
Time:	3 Hours			Max. Weightage: 25			
	to monkerous up	(a) Section A: A answer. Each (b) Section B: A weightage of weightage of Section D: Al weightage of weightage of weightage of	nswer <b>any four. Each</b> que <b>2</b> . nswer <b>any two. Each</b> que <b>4</b> . CTION – A	tage of <b>1</b> . stion carries a estion carries a			
1. i)	Reaction of Grign	ard reagent with	acetaldehyde gives				
	a) 1° alcohol c) 3° alcohol		2° alcohol				
ii)	In Stephen's reac	tion for the prep	aration of aldehyde the sta	arting material is			
	a) Alcohol		Ketone	amabia 19			
	c) Acid	d)	Nitrile				
iii)	The Oppenauer oxidation of n-propanol provides						
	a) Actaldehyde	b)	Propanaldehyde				
	c) Acetic acid	d)	Propionic acid				
iv)	Reduction of but-2-enal with sodium borohydride produces						
	a) But-2-ene-1-	ol b)	Butanol				

b) Butanol

d) Butene

4. i) Which among the following is not a disaccharide?

2. i)	Ozonolysis of acrylic acid results in the formation of					
	a) Oxalic acid	b)	Formic acid			
	c) Glyoxallic acid	d)	Acetic acid			
ii)	Partial reduction of tartaric acid with conc.HI furnishes					
	a) Malic acid	b)	Fumaric acid			
	c) Maleic acid	d)	Succinic acid			
iii)	Which among the following is optically inactive?					
	a) Alanine	b)	Glycine			
	c) Phenyl alanine	d)	Histidine			
iv)	v) The reaction of diethyl malonate with urea results in the formation					
	a) Barbituric acid	b)	Uric acid			
	c) Barbitone	d)	Phenobarbital			
3. i)	The primary amine reacts w	ethyl oxalate to give				
	a) Oxamic ester	b)	Oxamide			
	c) Acetic acid	d)	Oxalic acid			
ii)	The reduction of nitro benzene with Sn/HCI produces					
	a) Hydrazobenzene	b)	Azoxybenzene			
	c) Azobenzene	d)	Aniline			
iii)	The structure of biuret is					
	a) H <sub>2</sub> N-CO-NH <sub>2</sub>	b)	H <sub>2</sub> N-NH-CO-NH <sub>2</sub>			
	c) H <sub>2</sub> N-CONH-CO-NH <sub>2</sub>	d)	H <sub>2</sub> N-CS-NH <sub>2</sub>			
iv)	Zinc dust distillation of succinamide provides					
	a) Pyridine	b)	Quinoline			
	c) Pyrimidine	d)	Pyrrole			

		a)	Starch	b)	Lactose			
		c)	Maltose	d)	Sucrose			
	ii) D-glucose and D-mannose are							
		a)	C <sub>2</sub> epimers	b)	C <sub>4</sub> epimers			
		c)	C <sub>3</sub> epimers	d)	C <sub>5</sub> epimers			
	iii)	An	example for anthraquinone	dye	e			
		a)	Eosin	b)	Crystal violet			
		c)	Alizarin	d)	Indigo			
	iv) Which among the following is a monomer of orlon?							
		a)	Vinyl acetate	b)	Tetrafluoroethene			
		c)	Acrylonitrile	d)	Vinyl chloride	(Weightage: 4×1=		
				SEC	CTION - B			
5.	Wı	ite	a method to prepare pheno	l fro	m isopropyl benzene.			
6. Why is alpha hydrogen in aldehydes and ketones acidic in nature?								
7.	7. Draw the structures of tryptophan and glutamic acid.							
8.	8. What happens when indole is treated with formaldehyde and dimethylamine?							
9.	9. What is a chrmophore ? Give two examples.							
10.	10. How do you prepare crotonaldehyde from acetaldehyde?							
11.	11. Mention any two industrial uses of cellulose.							
12.	W	nat	are elastomers?			(Weightage: 5×1=		