MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER BSc. HEALTH SCIENCE DEGREE EXAMINATION - JULY 2023 SUBJECT: BHS-202 - ORGANIC CHEMISTRY - II

(MAKEUP)

Marks: 75		ration: 180 mins.
1. Answer 1A)	 the following questions briefly. Account for the following: (i) p<i>Kb</i> of aniline is more than that of methylamine. (ii) Ethylamine is soluble in water whereas aniline is not. 	(2)
1B)	What are the Properties of Elastomers?	(2)
1C)	Write the reaction when phenol is oxidized by Na ₂ Cr ₂ O ₇ /H ₂ SO ₄ .	(2)
1D)	Give the synthetic route convert from Phenol to Cyclohexanol.	(2)
1E)	What is gun cotton. How is it prepared?	(2)
1F)	Draw the open ring structure of fructose.	(2)
1G)	Explain Sandmeyer reaction.	(2)
1H)	What is TEL? How is it prepared?	(2)
1I)	What are the properties of electromagnetic radiation?	(2)
1J)	Why is chlorobenzene required drastic condition to react with NaOH?	(2)
1K)	Give a test to identify starch.	(2)
1L)	What are amino acids? Give an example.	(2)
1M)	Explain Million's test to identify proteins.	(2)
1N)	What is rayon? How is it obtained?	(2)
2 Answer the	e following questions.	
2A)	Give the preparation and properties of neoprene rubber.	(3)
, ,	blish the following conversions: Izene to p-chloroaniline.	
ii) Aniine to <i>p-bromoaniline</i> .		(3)
,	h e structure of maltose and lactose. yceride has a molecular weight of 900 and contains two double bonds. Calcu	(3) late the (i)saponification
numb	er and (ii) iodine number.	(3)
3 Answer tl	he following questions.	
3A) Explain i) Kolbe's rea	the following with an example for each: action.	
ii) Williamson ether synthesis.		(5)
3B) Explain the preparation of Grignard reagent? (5)		