No. of Printed Pages : 2

Sl. No.

21ICH3E2L

M.Sc. III Semester Degree Examination, April/May - 2023 **INDUSTRIAL CHEMISTRY**

Paper No. : DSE-2 A : Industrial Materials (CBCS)

Time : 3 Hours

Maximum Marks: 70

Note : Answer any five questions including Q.No. 1 is compulsory.

1.	(a)	How dyes are classified ? Mention the structure of azo and anthoquinone dyes. 4+3+3+4=14
	(b)	Discuss the methods of application of dyes of fibres.
	(c)	Describe the synthesis and applications of chloramines-T.
	(d)	With neat flow chat explain the manufacture of shampoo.
2.	(a)	Explain the manufacture of natural rubber. How vulcanization is carried out? 5+5+4=14
	(b)	Discuss the tanning process of leather.
	(c)	Write briefly on classifications of hides and skins.
3.	(a)	Write a note on fire retardant chemicals. 5+5+4=14
	(b)	How urea is manufactured ?
	(c)	Discuss the manufacture of superphosphate.
4.	(a)	What are the requirements of the good paints ? 5+5+4=14
	(b)	Give the classifications of paints.
	(c)	Discuss the methods of manufacturing of paints.
5.	(a)	List the advantages and disadvantages of adhesives. 5+5+4=14
	(b)	Write a note on :
		(i) Pressure sensitive adhesives
		(ii) Hot melt adhesives
	(c)	Give the preparation of :
		(i) Nitrocellulose
		(ii) RDX
		Р.Т.О.

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6.	(a)	Give the synthesis of Buna-S rubber. Mention its applications.	5+5+4=14
	(b)	How ammonia is synthesized ?	
	(c)	Write a note on potassium industries.	
7.	(a)	Write a note on properties of paints.	5+5+4=14
	(b)	Give the synthesis of cyanamide.	
	(c)	Give the synthesis of ammonium nitrate.	
8.	(a)	Give the structure and synthesis of Thiokol rubber.	5+5+4=14
	(b)	How baking powder is synthesized ? Discuss.	

(c) Give the classification of explosives.

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