No. of Printed Pages : 2

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Sl. No.

M.Sc. III Semester Degree Examination, April/May - 2024 INDUSTRIAL CHEMISTRY

DSE - 2A : Industrial Materials

(NEP)

Time : 3 Hours Maxi			aximum Marks : 70
Note: (i) Answer any five questions including Q.No 1.			
	(i	i) Q.No 1 is Compulsory .	_
1.	(a)	Describe the method of synthesis of an Azo dye.	3+4+4+3=14
1.	(a) (b)	Write a note on classification of drugs.	5++++5-1+
	``'	What are CNS stimulants? Give the structure of amphetamin	
	(c) (d)	-	10.
	(d)	How detergents are classified? Give example for each class.	
2.	(a)	Explain the manufacture of Styrene rubber and its application	n. 5+5+4=14
	(b)	Discuss the vegetable 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 ammonia is manufactured?	
	(c)	Discuss the manufacture of phosphoric acid.	
4.	(a)	Explain the methods of curing of paints.	5+5+4=14
	(b)	Give the classifications of paints.	
	(c)	Discuss the methods of manufacturing of paints.	
5.	(a)	Write a note on theories of adhesion.	5+5+4=14
	(b)	Write a note on natural product based adhesives.	
	(c)	Give the preparation of :	
	(-)	(i) TNT	
		(ii) Dynamite	

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21ICH3E2AL

- 6. (a) Give the synthesis of Buna-N rubber. Mention its applications. 5+5+4=14
 - (b) How Urea is synthesized? Discuss.
 - (c) Write a note on Nitrogen industries.

7. (a) Write a note on properties of paints.5+5+4=14

- (b) Give the synthesis of ammonium phosphates.
- (c) Give the synthesis of ammonium nitrate.
- 8. (a) Give the structure and synthesis of poly isoprene rubber. 5+5+4=14
 - (b) How baking powder is synthesized? Discuss.
 - (c) Give the characteristics of explosives.

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