

[26]

SARDAR PATEL UNIVERSITY

B.Sc. Industrial Chemistry

(Semester -VI) EXAMINATION

Course No.: US06CICH03

Date: 25/6/2022 (Polymer Technology)

		Time	2:10.00 am to 12.0	օբու		
Tota	d Marks: 70			[10]		
Q.1	Multiple Choice Questions	olumer				
1		orymor.	d) Plastic.			
	b) Semi synthetic	c) Symmone				
2	Bakelite is a copolymer of a) Urea &Formaldehyde c) Malemin	na & Formaldehyde				
	a) Urea & Formaldehyde e) Malerini	need of manage				
	b) Phenol& Formaldehyde d)Ester Urea formaldehyde resin is an example of					
3	a) Thermosetting b) Thermoplastic	c) Thermoelastic	d) Thermite			
	a) Thermosetting b) Thermoplastic					
4	a) Thermosetting b) Thermophasic Flexible Foam are usually made up of a) PVC b)Polyurethane	c)Polyamide	d) Silicon Rubber			
	a) PVC b) POlyticulare	-)- \$				
5	Functionality of Melamine is	e				
	a)One b) Two c) Three d) Fiv	,	•			
6	PVC is atype of polymer.	r				
	a) Thermoplastic c) Rubbe b) Thermoset Plastic d) None of the	nese				
7	Which of the following polymer contains n	iitrogen?				
	a)PVC c)Nylon					
•	a)PVC c)Nylon b) PVA d) Resol					
8	is the homopolymer of caprol	actum.	DNI don 12			
٥	b) Nylon 60	Charlemia	d)Nylon 12			
9	- 発達強性 atthor is made by nolymerizing					
	e usoniene					
	a)Styrene b)Nylon-66 d)Propene In vulcanization of polybutadiene b) Oxygen	is used as a vulcanizing agent.				
10			d)Nitrogen			
	a) Sulphut	e) Quinone	,			
	しも 一門の 御 一切 日本ました			[8]		
Q	.2 True or False					
1	Peroxides are also known as initiators.	asiantation of mole	cules.			
2	A Stereo Regular polymer have uniform	onemation of more	gives Epoxy resin.			
3	A Stereo Regular polymer have uniform. The reaction between the epichlorohydrical statement of the control of	Natta in 1003				
4	Detrained fluoride is also known as PVC	·•				
	t DPF have density ranging from 0.94-0.96 gni/cc.					
· -	o i i i modo by polymerizing vinyl C	yaniuc.				
	Alum solution may be used as the coagu	ilant to give SDIX.				

Q.3		Short Questions (Attempt any 10 out of 12)	[20]		
1		Write the difference between Initiator & Inhibitor			
2	1.	Differentiate Elastomers & Plastomers.			
3	. 1,	What is polycondentation? Explain with simple example.			
4	ġ.	List different methods used for the preparation of formaldehyde.			
5		What is polyol? Discuss about types of polyols?			
6	Discuss how the isocynates are prepared by phosgenation process.				
7		Write the properties of Polystyrene.			
8	٠.	Discuss the applications of Polycarbonates.			
9		Write in brief about high density polyethylene (HDPE).			
10	Name five Synthetic fibers.				
11.	Give the name of different natural fibre .Also write its uses.				
12	Draw the structure of Polyisoprene and Polychloroprene.				
12.		Draw the structure of Forytsopiene and Foryentalopiene.			
Q.4		Long Questions (Attempt Any Four)	[32]		
1		Discuss about any two Polymerization Techniques.			
2		Write classification of polymers based on molecular arrangement & tactility.			
3	Discuss manufacturing of urea formaldehyde resin.				
4		Explain manufacturing of LDPE by High Pressure process.			
5		Discuss about Teffon.			
		Explain the manufacturing of polypropylene by slurry process.			
6 7 8		Discuss manufacturing of Nylon-66.			
g g		Write about manufacturing process of cellulose nitrate			
- G - G		Write about managearing process of centrose made			
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