585/1 Chem/PR

UG/5th Sem/Chem(H)DSE-1A/PR/21

U.G. 5th Semester Examination - 2021 CHEMISTRY

[HONOURS]

Discipline Specific Elective (DSE)
Course Code: CHEM(H)-P-DSE-1A/PR
[PRACTICAL]

Full Marks: 20 Time: 2 Hours

The figures in the right-hand margin indicate marks.

Candidates are required to given their answer in their

own words as far as practicable.

Answer any **four** questions from the following: $5 \times 4 = 20$

- What is free radical polymerization? Give one example showing mechanism of free radical polymerization.
 - Name initiators generally used for free radical polymerization of vinyl monomers. 2
- Describe how benzoyl peroxide (BPO) is utilized in various polymerization processes.

What are retarders and inhibitors in polymerization reactions? Give examples. 2

	How can styrene polymerization be prevented?	1
3.	How formaldehyde resins are prepared?	2
	Describe the process of estimation of the amount of HCHO in a given solution by sodium sulphimethod.	
4.	Describe how molecular weight of a polymosolution is determined using viscometry method.	
	What do you mean by number average and weight average molecular weight?	ht 2
5.	How Nylon 66 can be synthesized? What type of reaction is it?	
	How it differs from addition polymerization reactions?	on 2

[Turn over]