Enrollment No:	Exam Seat No:

C.U.SHAH UNIVERSITY

Summer Examination-2022

Subject Name: Physical Pharmaceutics II - Theory

Subject Code: BP403T Branch: B.Pharm

Semester: 4 Date: 05/05/2022 Time: 11:00 To 02:00 Marks: 75

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

Q-1		Attempt the following questions:	(20)
	A	What are colloids?	2
	В	What is Gold number?	2
	C	Give ideal properties of suspension.	2
	D	Give types of emulsion.	2
	\mathbf{E}	Explain two identification test for emulsion.	2
	F	Briefly explain Newtonian flow with its equation.	2
	G	Briefly explain factors affecting viscosity.	2
	H	Give different terminology of viscosity.	2
	I	Define Half-life and Shelf-life.	2
	J	What is pseudo first order reaction?	2
Atten	npt t	he following questions:	
Q-2		Attempt any two of following: (2*10 Marks = 20 Marks)	(20)
	A	Explain Plastic flow, Pseudo plastic flow and Dilatant flow in detail.	10
	B	Discuss the types of colloids in detail.	10
	C	Write a detail note on Accelerated stability study with its limitations.	10
Q-3		Attempt any Seven of following: (7*5 Marks = 35 Marks)	(35)
	A	Explain Stock's law for sedimentation.	5
	B	Write a note on physical stability of emulsion.	5
	\mathbf{C}	Differentiate deflocculated and flocculated suspension.	5
	D	Write a note on Thixotropy.	5
	\mathbf{E}	Classify various instruments for measurement of viscosity. Explain any one in detail.	5
	F	What is zero order reaction? Derive an equation for the reaction rate constant, half-life and shelf life for zero order reaction.	5
	G	Discuss Oxidation as chemical degradation of drugs with its preventive measures.	5
	H	Explain Coulter counter method for determining particle volume.	5
	I	Write a note on derived properties of powders.	5

