

C.U.SHAH UNIVERSITY

Winter Examination-2022

Subject Name : Pharmaceutical Dosage Form Design I

Subject Code : 4PS07DFD1

Branch : B.Pharm

Semester: 7

Date: 22/11/2022

Time: 11:00 To 02:00

Marks: 70

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	Define the following terms:	(14)
	a) Preformulation	(1)
	b) Solvate	(1)
	c) Partition co-efficient	(1)
	d) Isomerization	(1)
	e) Photolysis	(1)
	f) Autooxidation	(1)
	g) C_{max}	(1)
	h) Relative bioavailability	(1)
	i) Pharmacodynamics	(1)
	j) Shelf life	(1)
	k) Overage	(1)
	l) Order of reaction	(1)
	m) Bio-degradable polymers	(1)
	n) Intrinsic dissolution	(1)

Attempt any four questions from Q-2 to Q-8

Q-2	Attempt all questions	(14)
a)	Write the objectives of preformulation? What is the importance of polymorphs in preformulation?	(7)
b)	Explain the effect of salt formation and racemization in Preformulation.	(7)
Q-3	Attempt all questions	(14)
a)	Enumerate bulk characterization parameters. Explain any one in detail.	(7)
b)	Describe drug-excipient compatibility study of pharmaceutical product.	(7)
Q-4	Attempt all questions	(14)
a)	Discuss plasma protein drug binding.	(7)
b)	Write a note on common ion effect.	(7)



