Enrollment No: _	Exam Seat No:	
	C.U.SHAH UNIVERSITY Summer Examination-2017	
	Summer Examination 2017	
Subject Name: Pl	harmaceutical Dosage Form Design II	

Subject Code: 4PS08DFD1 **Branch:** B.Pharm

**Semester: 8** Date: 15/04/2017 Time: 02:30 To 05:30 **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) Lag time Non-renal clearance b) Burst effect d) Niosomes Maintenance dose e)

- Loading dose f) Volume of distribution g)
- Biological half life h)
- Bio pharmaceutics i)
- Pharmacokinetics **j**)
- Biowaiver k)
- Total body clearance l)
- m) Hepatic failure
- Michaeles Menten Equation

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

Q-2		Attempt all questions	(14)
	a.	Differentiate Novel Drug Delivery System from Conventional Dosage Form.	<b>(7)</b>
		How is it beneficially to patient?	
	b.	Describe the ideal requirements for sustained release formulation.	<b>(7)</b>
Q-3		Attempt all questions	(14)
	a.	What properties are required for the drug to be a candidate for transdermal drug	<b>(7)</b>
		delivery system? Write evaluation method for of TDDS.	
	b.	Which are rationales for gastro-retentive drug delivery? Explain expandable	<b>(7)</b>
		approach.	
Q-4		Attempt all questions	(14)
	a.	Write a note on ocular inserts.	<b>(7)</b>
	b.	Mention the advantages and limitations of colon targeted drug delivery system.	(7)

Q-5		Attempt all questions	(14)
	a.	What is the composition of liposome? Mention the therapeutic applications of	<b>(7)</b>
		liposome.	
	b.	Short note on Urine data analysis	<b>(7)</b>
<b>Q-6</b>		Attempt all questions	(14)
	a.	Short note on Wagner-Nelson method	<b>(7)</b>
	b.	What do you mean by absorption window? How does it affect formulation and	<b>(7)</b>
		drug delivery?	
Q-7		Attempt all questions	(14)
	a.	Classify compartmental model & compare them with non compartmental model	<b>(7)</b>
		& physiological model.	
	b.	Short note on two compartment models.	<b>(7)</b>
Q-8		Attempt all questions	(14)
_	a.	Explain term: Drug interaction. Discuss ADME drug interactions with suitable	<b>(7)</b>
		examples.	
	b.	Short note on non linear pharmacokinetics.	<b>(7)</b>

