C. U. SHAH UNIVERSITY **Summer Examination-2017**

Subject Name: Advance Drug Delivery-I

Subject Code: 5PS02ADD3 Branch: M.Pharm (Pharmaceutics)

Semester: 2	Date:06/05/2017	Time: 02:00 To 05:00	Marks: 70
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Instructions:

- (1) Use of Programmable calculator and 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.

SECTION – I

Q-1			Define the following terms	(07)		
		a.	Hydrogel			
		b.	Osmotic pressure			
		c.	Superporous Hydrogel			
		d.	Plasticizer			
		e.	Maintenance Dose			
		f.	Lag time			
		g.	Burst effect			
Q-2			Attempt all questions	(14)		
	Α		Which categories of drug are suitable for sustained release Drug Delivery	(7)		
			Systems and Why?			
	B		Discuss various approaches of GRDDS.	(7)		
	OR					
Q-2			Attempt all questions			
	Α		Write a note on Advancement in capsule drug delivery.	(7)		
	B		Explain Pharmaceutical uses of non biodegradable polymers in controlled release	(7)		
			formulation.			
Q-3			Attempt all questions	(14)		
	Α		Explain the basic components of osmotic drug delivery system.	(7)		
	B		Write a note on EOP pump.	(7)		
	OR					
Q-3	Α		Explain the theories of bioadhesion for muccoadhesive drug delivery system.	(7)		
	B		Write a note on formulations for buccal bioadhesive drug delivery.	(7)		







Q-4			Define the following terms:	(07)
-		a.	QTPP	
		b.	CQA	
		c.	RLD	
		d.	Level	
		e.	Reduced Model	
		f.	Raft Forming Systems	
		g.	Wicking Agents	
Q-5			Attempt all questions	(14)
	Α		Explain the evaluation parameters of TDDS.	(7)
	B		Explain the subcutaneous Implants.	(7)
			OR	
Q-5	Α		Write a note on Vaginal and uterine route for controlled-release drug delivery.	(7)
	B		Explain the various devices for providing sustained release to the eye.	(7)
Q-6			Attempt all questions	(14)
	Α		Write a note on child resistant and temper proof packages.	(7)
	B		Explain Simplex Lattice for optimization with example.	(7)
			OR	
Q-6			Attempt all Questions	
	Α		Discuss the Benefits of Implementing Quality by Design for pharmaceutical	(7)
			Industry.	
	B		Write a note on Design Space Determination.	(7)

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