Exam Seat No: \_\_\_\_\_

# C.U.SHAH UNIVERSITY Winter Examination-2020

#### Subject Name: Drug Delivery System Subject Code: MPH102T

## Semester: 1 Date: 09/03/2021

#### Branch: M.Pharm (Pharmaceutics) 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	t all the following questions.	[2X10]=20
-	a)	Explain briefly the principle of Osmotic drug delivery system.	[2]
	b)	Write the rationale behind Drug Delivery System.	[2]
	c)	Describe briefly the surface erosion.	[2]
	d)	Explain briefly the Biodegradable polymer.	[2]
	e)	Differentiate between Intercellular and Transcellular diffusion.	[2]
	f)	Write four advantages of GDDS.	[2]
	g)	Explain briefly the Hollow fibres.	[2]
	h)	Define vaccine with two examples.	[2]
	i)	Write some common protein denaturing agents.	[2]
	j)	Draw a neat labeled diagram of Franz diffusion cell.	[2]
Q-2	Write long answers of any two:		[2X10]=20
	a)	Explain the physiochemical properties of a drug influencing drug	[10]
	<b>L</b> )	product design and performance.	[10]
	b)	Described the factors to be considered in the design of Osmotic drug delivery system.	[10]
	c)	Discuss in detail the evaluation of Transdermal drug delivery	[10]
	0)	system.	
Q-3	Write short answers of any seven:		[7X5]=35
	a)	Explain Enzyme activated Drug delivery system with suitable diagram.	[5]
	b)	Describe hydrophilic contact lens as Ophthalmic drug delivery system.	[5]
	c)	Explain the barriers to peptide and protein delivery.	[5]
	d)	Write a note on Telepharmacy.	[5]
	e)	Explain briefly the 3D printing of Pharmaceutical.	[5]
	f)	Describe the evaluation of Buccal Drug delivery system.	[5]
	g)	Explain penetration enhancers with suitable examples.	[5]
	h)	Write a note on Effervescent floating Drug delivery system.	[5]
	i)	Explain <i>in-vitro</i> skin permeation kinetics.	[5]



