Seat No.: _____ Enrolment No.____

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. - SEMESTER - VIII • EXAMINATION - WINTER 2013

Subject Code: 280002 Dat	te: 13-09-2013
--------------------------	----------------

Subject Name: Pharmaceutical Technology- II

Time: 03.00 am - 06.00 pm Total Marks: 80

Instructions:

1. Attempt any five questions.

- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	Differentiate: capping and lamination.	02
	(b)	Explain hypodermic tablets. Describe disintegration test as per IP.	04
	(c)	Compare and contrast the process of wet granulation and dry granulation for tablets.	05
	(d)	Describe formulation and evaluation of mouth dissolving tablets.	05
Q.2	(a)	Comment: Tablet hardness is an absolute indicator of tablet strength.	02
	(b)	What are objectives of enteric coating? Describe polymers used for enteric coating.	04
	(c)	Describe defects in coated tablets with remedial measures.	05
	(d)	What are turrets? Describe compression cycle for rotary tablet machine.	05
Q.3	(a)	What is bloom strength? How is it measured?	02
	(b)	What are vegetable capsules? How are they differing from gelatin capsules?	04
	(c)	Describe the finishing of hard gelatin capsules. Give the approximate fill volume	05
		of 00 and 000 size capsules.	
	(d)	What are soft gelatin capsules? Describe rotary die process for their preparation.	05
Q.4	(a)	Comment: Storage condition for capsules is very critical.	02
	(b)	Explain microspheres and microcapsules. Describe their significance in drug delivery.	04
	(c)	What is coacervation phase separation? Which are the techniques to achieve phase separation?	05
	(d)	Describe biodegradable and non-biodegradable polymers used in microcapsules.	05
Q.5	(a)	What is anti-dandruff shampoo? Name two anti-dandruff agents.	02
	(b)	Differentiate cold cream and vanishing cream.	04
	(c)	What are sunscreen preparations? Discuss their formulation and evaluation in brief.	05
	(d)	Describe the formulation and evaluation of dentifrice.	05
Q. 6	(a)	What is PET? Why is it eco-friendly?	02
	(b)	Discuss the sugar coating steps with their purposes.	04
	(c)	What is tamper evident package? Describe blister package.	05
	(d)	Describe glass as a material for pharmaceutical packaging. Explain water attack test.	05
Q.7	(a)	What is validation? Name the types of validation.	02
	(b)	What is SOP? Describe its significance.	04
	(c)	Describe the validation of an autoclave.	05
	(d)	What is documentation? Describe batch manufacturing records.	05
