Seat No.: _____ *Enrolment No._____*

GUJARAT TECHNOLOGICAL UNIVERSITY
B. PHARM (SEMESTER-8) SUMMER-2015

Subject code: 280002 **Date: 30/04/2015**
Subject Name: Pharmaceutical Technology-II
Time: 10:30 am to 1:30 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)	Describe role of diluents in tablet manufacturing. Discuss directly compressible diluents with suitable examples.	**06**
	(b)	Explain in process quality control parameters of tablets.	**05**
	(c)	Describe filling operation for hard gelatin capsules.	**05**
Q.2	(a)	Describe significance of dry granulation process. Explain working and process variable of dry granulator.	**06**
	(b)	Enlist types of tablet coater. Describe process variables for pan coating.	**05**
	(c)	Describe soft gelatin capsule manufacturing process.	**05**
Q.3	(a)	Enumerate defects observed in tablet compression process. Explain capping and lamination with its causes and remedies.	**06**
	(b)	Describe multistation rotary tablet compression cycle with diagram.	**05**
	(c)	Discuss application of biodegradable polymers in microencapsulation.	**05**
Q.4	(a)	Classify type of packing materials. Discuss criteria for selection of pharmaceutical packaging material.	**06**
	(b)	Describe formulation aspects of baby care products.	**05**
	(c)	What is validation? Discuss validation of wet granulation process.	**05**
Q.5	(a)	Describe significance of GMP in pharmaceutical industry. Discuss personnel requirements as per GMP.	**06**
	(b)	Write a note on tamper evident packaging.	**05**
	(c)	Explain spray drying and spray congealing process of microencapsule manufacturing.	**05**
Q. 6	(a)	Define SOP. Describe content and format of SOP.	**06**
	(b)	Write a note on Shaving cream.	**05**
	(c)	Enlist quality control parameters of soft gelatin capsules. Explain dissolution study for soft gelatin capsule.	**05**
Q.7	(a)	Describe basic formula and evaluation parameters of floating tablets.	**06**
	(b)	Discuss validation of steam sterilizer.	**05**
	(c)	Describe Pharmaceutical product recovery and reprocessing as per GMP.	**05**

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