

NE-02010309

Seat No.

M. Pharm. (Sem. I) (CBCS) Examination

January - 2017 Industrial Pharmacy (Pharmaceutics)

Time: 3 Hours] [Total Marks: 80

Instructions: (1) Answer and tie up both the section separately.

- (2) Answer to the right indicates marks.
- (3) Answer three (03) questions from each section.
- (4) Question One (1) and Question Five (5) are compulsory.

SECTION - I

1 Answer any seven out of ten:

- **14**
- a. Comment with reasons that the humidity has to be controlled for manufacturing of Soft gelatin capsules.
- b. Briefly describe the objectives of validation master plan.
- c. Describe the contents of SOP.
- d. Enlist various IPQC parameters for tablet manufacturing.
- e. What is class 100 clean area?
- f. Explain the difference between GMP and cGMP.
- g. Enlist the various equipment required for manufacturing liposomes.
- h. What is master formula record?
- i. Justify the importance of validation protocol.
- j. Explain the objective of SUPAC guidelines.
- 2 a. Describe HVAC as utility service in pharmaceutical manufacturing.
 - b. Explain qualitative and quantitative departmental layout for Transdermal Drug delivery systems.

3	a.	Describe the factors affecting the location of a	7
	,	pharmaceutical industry.	0
	b.	What is pilot plant? Describe pilot plant operation.	6
4	a.	Describe the equipments required in the manufacture	7
		of solid dosage forms as per Schedule-M.	
	b.	Enlist the equipments required for semisolid dosage	6
		forms. Describe Colloidal mill.	
		SECTION - II	
5	Answer any two out of three : (07 $ imes$ 02)		14
	a.	Discuss personnel facilities required in pharmaceutical	
		industry.	
	b.	Describe departmental layout for oral liquid dosage	
		forms.	
	c.	Describe the preparation of SOP for sterile	
		manufacturing.	
6	a.	What is SUPAC SS? Describe different levels of	7
		changes in MR formulations.	
	b.	Discuss the scale up for tablet coating process.	6
7	a.	Explain routing and scheduling with respect to	7
	_	production planning.	
	b.	Discuss qualitative and quantitative departmental	6
		layout for Aerosols.	
8	a.	What is documentation? Describe Batch Packaging	7
		Record.	
	b.	What is the significance of GMP in	6
		pharmaceutical manufacturing.	