Seat No.: _____ Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M. PHARM. - SEMESTER– II. EXAMINATION – SUMMER 2016

Subject Code: 2920108 Date: 19/05/2016

Subject Name: Industrial Pharmacy Practice - III

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)**	Discuss procedural requirements for obtaining manufacturing license for liquid department.	**06**
	(b)	Discuss approval formalities for pharmaceutical industry as per Factory act.	**05**
	(c)	Describe the legislative requirements as per D & C act for obtaining manufacturing licenses for oral products.	**05**
Q.2	**(a)**	Discuss aims, objects and salient features of Pollution control act.	**06**
	(b)	Discuss aims, objects and salient features of Prevent of Food Adulteration Act 1954.	**05**
	(c)	Discuss aims, objects and salient features of Industrial Development and Regulation Act 1951.	**05**
Q.3	**(a)**	Draw a neat sketch of blister packaging machine; discuss its advantages and disadvantages.	**06**
	(b)	Enlist factors affecting selection of strip packaging materials. How are strip packs evaluated?	**05**
	(c)	Enlist and discuss factors affecting selection of primary and secondary packaging material.	**05**
Q.4	**(a)**	Differentiate between Oriented and Non-oriented films for flexible packages giving suitable advantages and disadvantages for it.	**06**
	(b)	Differentiate between Stretchable films and laminates giving suitable advantages and disadvantages for it.	**05**
	(c)	Enlist various evaluations parameters of strip and blister packaging.	**05**
Q.5	**(a)**	Enlist and discuss various types containers used for sterile products.	**06**
	(b)	Enlist and discuss evaluation parameters of the sterile products.	**05**
	(c)	Draw a flowchart for manufacture of oily steroid injection with suitable IPQC tests.	**05**
Q. 6	**(a)**	Write a note on nano suspension giving suitable evaluation parameters.	**06**
	(b)	Discuss aerosols filling processes in details.	**05**
	(c)	Discuss environmental controls and design consideration for small volume parenteral products.	**05**
Q.7	**(a)**	Enlist and discuss factors affecting release of drugs from semisolid dosage forms.	**06**
	(b)	Discuss stability protocol for liquids.	**05**
	(c)	Discuss SUPAC guidelines for Immediate release dosage forms.	**05**

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