GUJARAT TECHNOLOGICAL UNIVERSITY

M. Pharm. – SEMESTER – II • EXAMINATION – WINTER • 2015

Subject Code: 2920108 Date: 07-12-2		Code: 2920108 Date: 07-12-2015	
Tim	e: 1(Name: Industrial Pharmacy - III):30 am - 01:30 pm Total Marks: 80	
Instr	1. 2.	ns: Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	Define stability study. Enlist the various ICH guidelines as they have been classified with codes.	06
	(b) (c)	Design the stability protocol for fast release tablets. Give SUPAC guidelines for modified release dosage forms.	05 05
Q.2	(a)	Enlist and discuss the legislative requirements of WHO GMP certification scheme.	06
	(b)	Explain the procedural requirements for obtaining manufacturing license for liquid department.	05
	(c)	Give the approval formalities for pharmaceutical industry as per factory act.	05
Q.3	(a)	Enlist evaluation parameters for sterile products packages. Discuss any two in details.	06
	(b) (c)	Enlist the provisions of Consumer Protection Act. Enlist the provisions for Preservatives as per Food Adulteration Act 1954.	05 05
Q.4	(a) (b)	Enlist aims, objects and salient features of Industry – Pollution Control Act. Classify various types of packaging material. Enlist factors affecting selection of packaging material.	06 05
	(c)	Write a note on BACPAC guidelines for API.	05
Q.5	(a)	Draw a neat sketch of the blister packing machine. Give advantages and disadvantages of blister packing over strip packaging.	06
	(b)	Enlist the factors affecting selection of strip packaging materials. How are strip packs evaluated?	05
	(c)	Write a note on FFS (Form Fill Seal) Technology.	05
Q. 6	(a) (b) (c)	Describe In-process quality control tests for solid injectable in vial pack. Write a note on formulation & evaluation of nanosuspensions. Enlist IPQC parameters for aerosols and discuss any two in details.	06 05 05
Q.7	(a)	Draw a detailed flowchart for manufacture of oily injection containing corticosteroids with details of IPQC tests.	06
	(b)	Enlist the factors affecting drug release from semisolids and enlist list of equipments required for a semisolid manufacturing department.	05
	(c)	Write a note on bracketing and matrixing used in stability studies.	05
