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GUJARAT TECHNOLOGICAL UNIVERSITY

B.Pharm - SEMESTER- 7th • EXAMINATION - WINTER -2019

Subject Code: 2270002 Date:18/11/		2019	
Subject Name: Pharmaceutical Technology - ITotal Marks: 80Time: 10:30AM TO 01:30PMTotal Marks: 80Instructions:1. Attempt any five questions.1. Attempt any five questions.2. Make suitable assumptions wherever necessary.3. Figures to the right indicate full marks.			60
Q.1	(a)	Write in details about containers used for aerosols. How will you evaluate	06
	(b) (c)	pharmaceutical aerosols? Enlist the quality control tests for injectables. Explain rabbit test and LAL test. Define: Pharmaceutical Aerosols. Give a brief account of propellant and its selection.	05 05
Q.2	(a)	What are the sources of contamination & methods of prevention in sterile dosage formulations?	06
	(b)	Draw well labeled diagram for aerosols packs. Explain different parts of valve assembly.	05
	(c)	Explain the mechanism of drug penetration through skin. Discuss factors affecting drug absorption through skin from semisolid dosage forms.	05
Q.3	(a)	Write a brief note on formulation of ophthalmic dosage form. Discuss ocular inserts for ophthalmic use.	06
	(b) (c)	Write a short note on 1. Prefilled syringes 2. TPN Classify different types of glass as per USP. Describe Water attack test for glass.	05 05
Q.4	(a)	Enumerate ideal characteristics of suppository bases. Describe methods of manufacturing suppositories in detail.	06
	(b) (c)	Write brief note on: 1. Baby care products 2. Hygienic preparations Write a detailed note on storage and purity of W.F.I.	05 05
Q.5	(a)	Comment: Sedimentation rate of flocculated suspensions is faster than deflocculated suspensions. Differentiate flocculated and deflocculated suspension.	06
	(b) (c)	Write brief notes on 1. Tincture 2. Extracts 3. Infusion What are various instabilities of emulsions? Discuss them with their causes and precautions to avoid them	05 05
Q. 6	(a) (b)	Write brief notes on: 1. SOPs 2. Recovery and reprocessing 3. PersonnelWrite detailed note on formulation, preparation and evaluation of :1. Sunscreen 2. Nail polish	06 05
	(c)	What are different types of validation? Write short note on validation of granulation stage in tablet manufacturing.	05
Q.7	(a)	Write brief note on formulation, preparation & evaluation of shampoo and conditioners.	06
	(b) (c)	Define Validation. Write a note on validation of steam sterilization. Write a note on semi solid bases. Enumerate their selection & ideal requirement	05 05
