

GUJARAT TECHNOLOGICAL UNIVERSITY

B.PHARM - SEMESTER- 7 EXAMINATION – SUMMER -2019

Subject Code: 2270002

Date: 09-05-2019

Subject Name: Pharmaceutical Technology-I

Time: 02:30 PM TO 05:30 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)	Classify different types of glass as per USP. Describe Water attack test for glass in detail.	06
	(b)	Write a note on semi solid bases. Enumerate their selection and ideal requirements of bases.	05
	(c)	Enumerate quality control tests of Aerosol. Describe flash point and particle Size determination in detail.	05
Q.2	(a)	Describe in detail the evaluation tests for suppositories.	06
	(b)	Classify methods of aerosols filling. Describe pressure filling process with suitable diagram.	05
	(c)	Write brief note on following i) Propellant ii) Water based system	05
Q.3	(a)	Discuss the preparation and storage of water for injection.	06
	(b)	Enumerate ideal characteristics of suppository bases. Describe any one method of manufacturing suppositories in detail	05
	(c)	Write short note on Standard Operating Procedures.	05
Q.4	(a)	What is Bottom up technology for Nanosuspensions? Discuss in detail media milling technique.	06
	(b)	Discuss formulation components of lipstick and their function.	05
	(c)	What type of record maintain in Pharmaceutical company as per GMP. Write note on batch manufacturing record.	05
Q.5	(a)	Write a note on vehicles used in sterile dosage form.	06
	(b)	What is ophthalmic inserts? Discuss in brief.	05
	(c)	Classify cosmetics. Write a short note on shampoo.	05
Q.6	(a)	What is HEPA filter? Briefly explain HOT and COLD DOP test.	06
	(b)	Classify routes of drug penetration through skin. Describe various factors affecting on drug penetration through skin.	05
	(c)	Enumerate and describe the evaluation tests for Pharmaceutical suspensions in brief.	05
Q.7	(a)	Write a note on formulation of ophthalmic dosage form.	06
	(b)	Differentiate between the emulsions, multiple-emulsions and micro emulsions.	05
	(c)	Discuss various methods for solubility enhancement in liquid dosage forms.	05
