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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**

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