## **GUJARAT TECHNOLOGICAL UNIVERSITY** BPHARM – SEMESTER VII • EXAMINATION – WINTER • 2016

	-	ect code: 2270002 Date: 19-11-2 ect Name: Pharmaceutical Technology - I	Date: 19-11-2016	
	•	: 10:30 am - 01:30 pm Total Marks	: 80	
	Instr	uctions:		
		<ol> <li>Attempt any five questions.</li> <li>Make suitable assumptions wherever necessary.</li> <li>Figures to the right indicate full marks.</li> </ol>		
Q.1	(a) (b) (c)	Write a note on FFS Technology Write a brief note on Parenteral suspensions Discuss in brief about prefilled syringes.	06 05 05	
Q.2	(a) (b) (c)	What are clean rooms? Discuss the standards for clean rooms. Enumerate criteria for environmental monitoring of clean rooms. Write advantages and disadvantages of liquid dosage forms. Write a brief note on anti dandruff shampoo	06 05 05	
Q.3	(a) (b) (c)	<ul> <li>Classify liquid dosage forms. Describe in brief the formulation components of clear liquids with the role of each component in the formula.</li> <li>Write a brief note on</li> <li>1. Micro-emulsion</li> <li>2. Multiple emulsion</li> <li>Explain preparation and storage of W.F.I.</li> </ul>	06 05 05	
Q.4	(a) (b) (c)	What are sunscreen preparations? Discuss their formulation and evaluation in brief Write a note on containers and closures used for parenteral products. Explain formulation and evaluation of toothpaste	06 05 05	
Q.5	(a) (b) (c)	Enumerate factors influencing penetration of drugs through skin. Write a brief note on general formulation for semi solid preparations Enumerate ideal characteristics of suppository bases. Describe any one method of manufacturing suppositories in detail	06 05 05	
Q. 6	(a) (b) (c)	Define Aerosols. Give a brief account of propellants. Discuss evaluation tests for pharmaceutical aerosol products Write applications of Pharmaceutical Aerosols	06 05 05	
Q.7	(a) (b) (c)	Explain in detail the validation of steam sterilizer What is SOP? Describe its significance Discuss the premises facility requirements as per GMP.	06 05 05	

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