Seat No.:	
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Enrolment 1	No.
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## GUJARAT TECHNOLOGICAL UNIVERSITY

GUJARAT TECHNOLOGICAL UNIVERSITY M. Pharm SEMESTER III EXAMINATION – SUMMER-2016 Subject Code: 930107 Date: 27/05/2016 Subject Name: Pharmaceutical and Cosmetic Analysis			
Time Instru 1. 2.	: 2:30 uctior Atto Ma	PM to 5:30 PM Total Marks: 80	
Q.1	(a) (b) (c)	Discuss drug decomposition by hydrolysis and acyltransfer mechanism. Write note on energetic and kinetic of photolysis. Discuss microbial decomposition of drugs and drug products.	06 05 05
Q.2	(a) (b) (c)	Write drug -exicipient and drug-drug interaction in solid state. Discuss drug decomposition by oxidation. Write the physical stability testing for powder and granules.	06 05 05
Q.3	(a) (b) (c)	Describe physical stability of liposomes and neosomes. Discuss selection of biological sample and extraction of drugs by liquid-liquid extraction techniques. What is SPE? Explain extraction of drug from biological fluid by SPE.	06 05 05
Q.4	(a) (b) (c)	Explain quantative determination of emulsifiers and stabilizers in pharmaceutical formulations. Describe analysis of preservative in cosmetic products. Write a note on safety and legislation of cosmetic products.	06 05 05
Q.5	(a) (b) (c)	Describe about instability of emulsions. Describe factors affecting extraction of drug from biological samples. Write methods of analysis to determine quality of raw material for cosmetic preparation.	06 05 05
Q. 6	(a) (b) (c)	Write BIS standards for sampling and testing of finished cosmetics. Discuss methods of analysis of dental products. Write quality control test for skin care products.	06 05 05
Q.7	(a) (b) (c)	Describe method of analysis of ethnic products. Write a note on analysis of shampoo. Write short note on toxicity testing in cosmetic.	06 05 05

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