Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

M. Pharm. – SEMESTER – III • EXAMINATION – WINTER • 2015

Subject Code: 930107 **Date: 08-12-2015**

Subject Name: Pharmaceutical and Cosmetic Analysis

Time: 10:30 am - 01:30 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)**	Describe physical stability tests for solid dosage form.	**06**
	(b)	Discuss the hydrolysis mechanism for degradation of drug and how it helpful to improve stability.	**05**
	(c)	Describe stability testing of liposome.	**05**
Q.2	**(a)**	What is kinetic study? Discuss the photolytic degradation.	**06**
	(b)	Write a note on drug-drug interaction with suitable example.	**05**
	(c)	Discuss about Microbial decomposition.	**05**
Q.3	**(a)**	Write a note on oxidation pathways of pharmaceutical drugs with example.	**06**
	(b)	Discuss the methods of stabilization of dosage form.	**05**
	(c)	Describe the identification test for emulsifiers.	**05**
Q.4	**(a)**	Write a note on method of analysis to determine the quality of raw materials used in cosmetic.	**06**
	(b)	Write a note on evaluation and quality control test for shampoo.	**05**
	(c)	What is preservative? Discuss identification test and method of analysis of preservatives.	**05**
Q.5	**(a)**	What is the importance of analysis of drugs in biological fluid? Discuss selection of biological sample.	**06**
	(b)	Discuss on solid phase extraction method.	**05**
	(c)	Discuss the method of analysis of colouring material.	**05**
Q. 6	**(a)**	Classify and Give examples of dental products. Discuss the method of analysis of one dental product.	**06**
	(b)	Write a note on quality control test for Lipstick.	**05**
	(c)	What is SPF? Write a quality control test of Sunscreen lotion.	**05**
Q.7	**(a)**	Discuss about toxicity studies in Cosmetics.	**06**
	(b)	Give the example of colours used in makeup preparation and write quality control test for Eye shadow.	**05**
	(c)	Discuss the Indian Standard Specification for testing of cosmetic products.	**05**

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