Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY M. Pharm - SEMESTER-III • EXAMINATION – WINTER-2016

Subject Code: 930107 Date: 23/11/2016

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)	Discuss the oxidation mechanism for degradation of drug and how it helpful to improve stability.	06
	(b)	Describe stability testing of capsules	05
	(c)	Discuss the drug-drug interaction with suitable examples.	05
Q.2	(a)	Discuss about microbial decomposition.	06
	(b)	What is kinetic study? Discuss the photolytic degradation.	05
	(c)	Write in brief about physical stability liposomes	05
Q.3	(a)	What is antioxidant? Discuss quantitative determination of antioxidants.	06
	(b)	Describe identification test for preservatives and stabilizers.	05
	(c)	Write a note on quality control test for ethnic products.	05
Q.4	(a)	Discuss the solid phase extraction of drugs. What are the different factors affecting extraction.	06
	(b)	Discuss about toxicity studies in cosmetics.	05
	(c)	What is SPF? Write a quality control test of sunscreen lotion	05
Q.5	(a)	Discuss general methods of analysis for raw material used in cosmetic industry	06
	(b)	Write about safety and legislation of cosmetics products	05
	(c)	Discuss the method of analysis of one dental product.	05
Q. 6	(a)	Write methods of analysis for the finished cosmetics (i) Baby care products (ii) Hair lotion	06
	(b)	Write a note on quality control test for lipstick.	05
	(c)	Write a note on Indian standard specification for testing of cosmetics in	05
	(-)	finished form.	
Q.7	(a)	Enlist the colours used in makeup preparation and write quality control test for eye shadow.	06
	(b)	Give method of analysis for (i) Skin care product (ii) Personal hygiene products	05
	(c)	Give brief account on (i) Membrane filtration (ii) Stability of nano particles	05
