	_	Enrolment No GUJARAT TECHNOLOGICAL UNIVERSITY M. Pharm. – SEMESTER – III • EXAMINATION – WINTER • 2014 Code: 930107 Date: 06-12-2014	
Subj	ject] e: 1(Name: Pharmaceutical and Cosmetic Analysis):30 am - 01:30 pmTotal Marks: 80	
	2.	Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b) (c)	Enlist biological fluids. Describe solid phase extraction and membrane filtration technique for extraction of drug from biological fluid. Factor affecting extraction of drugs from biological samples. Discuss quality control test for colour cosmetics.	06 05 05
Q.2	(a) (b) (c)	Describe drug decomposition by oxidation with suitable example. Write a note on energetic and kinetics of photolysis. Describe method of analysis for Dental products.	06 05 05
Q.3	(a) (b) (c)	Describe solid state decomposition of pharmaceuticals with suitable examples. Discuss the physical stability testing for powder and granules. Write a note on physical stability of Liposomes and Niosomes.	06 05 05
Q.4	(a) (b) (c)	Write qualitative and quantitative determination of colouring materials and emulsifiers. How to perform identification and quantification of antioxidants. Write a note on quality control test for ethnic products.	06 05 05
Q.5	(a) (b) (c)	Write a note on Indian standard specification for testing of cosmetics in finished form. Write about safety and legislation of cosmetics products. Write a note on toxicity testing in cosmetics.	06 05 05
Q. 6	(a) (b)	Write note on method of analysis used to determine quality of raw materials used in cosmetics. Discuss drug excipient and drug-drug interaction in solid state with suitable example.	06 05
	(c)	Discuss selection of Biological sample and extraction of drugs by liquid-liquid extraction technique.	05
Q.7		Write methods of analysis for the following finished cosmeticsa)Baby care productsb)Lipsticksc)Hair lotiond)Eye shadow	16
