AQ-2997

Faculty of Cosmetic Technology M.Tech. (Quality Assurance) Semester-II Examination (Old) ADVANCED COSMETIC ANALYSIS-I Paper-2-T-4

Time: Three Hours] [Maximum Marks: 80

INSTRUCTIONS TO CANDIDATES

- (1) ALL questions carry equal marks.
- (2) Answer any four questions.
- Diagrams and Chemical equations should be given wherever necessary.
- (4) Illustrate your answers wherever necessary with the help of neat sketches.
- (5) Use pen of blue/black ink/ refill only for writing the answer book.
- (i) Discuss briefly the basic principles of UV spectroscopy.

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(ii) Briefly describe the scanning of UV spectrum of organic compound and UV's use in the study of complex ions.

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2.	Discuss the principle, instumentation and appli	cation of
	IR.	20

- (i) Give the estimation of a cosmetic compound by colorimetry.
 - (ii) What are the applications of colorimetry in cosmetic analysis?
- Compare the relative sensitivities of the nephelometer and tubidometer with examples.
- 5. Write short notes on (Any four):
 - (i) Double beam UV spectrophotometer
 - (ii) Absorption and Emmission of radiant energy
 - (iii) Densitometry
 - (iv) Beer's Law
 - (v) Qualitative and quantitative applications in pharmaceutical analysis by IR spectroscopy.