

Faculty of Cosmetic Technology
M.Tech. (Cosmetics Technology) Semester—I Examination
PRINCIPLES OF COSMETIC TECHNOLOGY
(Common for All Branches)

Paper—I T1

Time : Three Hours]

[Maximum Marks : 80

INSTRUCTIONS TO CANDIDATES

- (1) All questions carry equal marks.
- (2) Answer **FIVE** questions.
- (3) Illustrate your answers wherever necessary with the help of neat sketches.
- (4) Use pen of Blue/Black ink/refill only for writing the answer book.

1. Explain in detail Theory and Mechanism of Solubilization. Discuss in detail some factors in the formulation of cosmeceuticals containing solubilized materials. 16

OR

Explain in detail various factors affecting Micelle Formation and give the methods for investigation of Micellar Solutions. 16

2. Discuss in detail theories of Emulsion. Explain in detail industrial processing and large scale manufacturing of Emulsion. 16

OR

Explain in detail Adsorption on Solid Surface. 16

3. Explain in detail electrical phenomena at interface and add a note on Nernst and Zeta potential. 16

4. Explain in detail various methods to determine particle size and surface area. 16

5. Write notes on (any **TWO**) :

- (i) Newtonian and Non-Newtonian flow of liquid.
- (ii) Chemical and physical factors affecting rheological properties.
- (iii) Flow properties of powder. 16

