

Faculty of Cosmetic Technology
M.Tech. (Cosmetics Technology) Semester—I Examination
PRODUCT DEVELOPMENT AND FORMULATION
(Common for All Branches)

Paper—1T3

Time : Three Hours]

[Maximum Marks : 80

INSTRUCTIONS TO CANDIDATES

- (1) All questions carry equal marks.
 - (2) Answer **ALL** questions.
 - (3) Illustrate your answer wherever necessary with the help of neat sketches.
 - (4) Use pen of Blue/Black ink/refill only for writing the answer book.
1. How will you develop a Shampoo ? What are the requirements for an effective Shampoo ? 16
 2. Discuss the preformulation studies in Formulation and development of Cosmetic products. 16

OR

Explain in detail purpose and functions of Pilot plant scale up techniques. Add a note on planning of pilot plant size of pilot plant. 16

3. Discuss the formulation and development of suspension based products. Also write industrial processing of "Calamine lotion" with its Master formula. 16
4. What do you understand by percutaneous absorption ? Discuss controlled released cosmetics and its general consideration in detail. 16
5. Explain skin toxicity test. What are the requirements and guidelines on clinical trials of new cosmetics in India ? 16

OR

Write detailed notes on :—

- (a) Steps involved in development of new cosmetics.
- (b) Liposome technology with its importance in active delivery system. 16

