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 **five** questions.
- (3) Use pen of Blue/Black ink/refill only for writing the answer book.
- 1. Explain in detail about development of new cosmetics and add a note on Skin toxicity test. 16

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Explain in detail about generation of laboratory data during development of new cosmetics and add a note on regulatory requirements as per WHO.

- 2. Explain in detail about product development of antiperspirants and deodrants.
- Explain in detail about concept of nanotechnology and then discuss about Liposomal delivery of cosmetics.

OR

Explain in detail about stability of a cosmetic product. How chemical properties of ingredients from formulation affects stability of cosmetic product?

- Explain the concept, purpose and functions of pilot plant scale up technique and add a note on organisation of it.
- 5. Write notes on (any **two**):
 - (a) Preformulation studies and its importance
 - (b) Controlled release cosmetics
 - (c) Formulation and Development of aerosols.

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