

(Faculty of Cosmetic Tech.)  
**M.Tech. (Cosmetics Technology) Semester-I Examination**  
**RESEARCH METHODOLOGY**  
**(Common for All Branches)**  
**Paper-1T5**

Time : Three Hours]

[Maximum Marks : 40

**Note :—** (1) All questions carry equal marks.

(2) Answer **Four** 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. Define Research. Explain different types of Research. Add a note on significance of research. 10
2. What do you mean by research design ? Explain the research process in detail with flow chart. 10
3. Describe the methods of Data Collection in detail. Add a note on statistical methods of analysis of data. 10
4. What are the tips and skills required for good presentation ? 10
5. Discuss in detail steps involved in report writing and presentation. 10
6. Comment on (any **two**) :
  - (i) Sampling and sampling designs
  - (ii) Parametric and Non parametric tests
  - (iii) Qualitative and quantitative data
  - (iv) Importance of references in scientific paper writing 10

