

**Faculty of Cosmetic Technology**  
**M.Tech. (Herbal Cosmetics) Semester—II Examination**  
**ADVANCED HERBAL COSMETICS—I**  
**Paper—2T1**

Time : Three Hours]

[Maximum Marks : 80

**INSTRUCTIONS TO CANDIDATES**

- (1) All questions carry equal marks.
- (2) Answer all **five** questions.
- (3) 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.

1. Differentiate between extraction and isolation of herbal actives. Add detailed notes on isolation and purification of herbs giving examples of herbs and appropriate techniques. 16
2. What are chemical constituents of apricot ? Explain suitable methods of isolation of active principle of apricot. 16
3. What are alkaloids ? What are various tests for identification of alkaloids ? Add a note. 16

**OR**

Write detailed account on Vettiver oil. 16

4. What are astringents ? Define them. Add comprehensive notes on Ashoka bark and isolation of any of active constituent. 16

**OR**

Write detailed note on aromatherapy, and its application in cosmetics. 16

5. Write notes on (any **two**) :
  - (i) Flash chromatography and its applications.
  - (ii) Assessment of herbal extract informulation.
  - (iii) Validation of process of herbal formulation. 16

