

AU-858

Faculty of Cosmetic Technology
B.Tech. Semester—III (Cosmetics) Examination
COSMETIC ENGINEERING—I
Paper—3.5

Time : Three Hours]

[Maximum Marks : 60

INSTRUCTIONS TO CANDIDATES

- (1) All questions carry equal marks.
- (2) Answer **ALL** 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. Give classification of various crystallizers. Add a note on vacuum crystallizer. 12

OR

- (i) Write in detail about material balance.
- (ii) Write in detail about Bernoulli theorem. 12
2. Write in detail about theory of filtrations. Describe filtration aids. 12
3. Describe about diaphragm and reciprocating pumps. 12
4. Describe the construction, working and applications of atmospheric drum dryers. 12

OR

- Describe the construction and working of rotary, drum filters. 12
5. Write short notes on (any **THREE**) :
 - (i) Dehumidifiers
 - (ii) Turbine pumps
 - (iii) Orifice meter
 - (iv) Use of humidity chart. 12