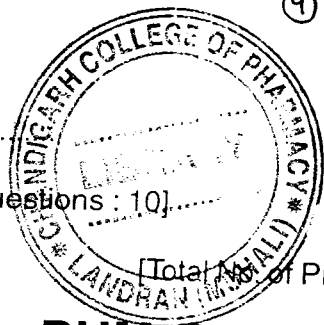


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**PHARMACEUTICS-III
(Unit Operation-II)**

(B.Pharmacy., 4th Semester, 2055)

Time : 3 Hours

Maximum Marks : 80

Note :- Section A is compulsory. Attempt any *Four* questions from Section B and any *Three* questions from Section C.

Section-A

Marks : 2 Each

1. Write in brief about :

- (a) Moisture content.
- (b) Dimension less groups.
- (c) Unit operation.
- (d) Azeotropic mixture

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Turn Over

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(2)

- (e) Conduction.
- (f) Distillation.
- (g) Phase equilibria.
- (h) Rittinger's law.
- (i) Automatic process control.
- (j) Evaporators
- (k) Mole volume.
- (l) Mean free path.
- (m) Moderately coarse powder.
- (n) Attrition.
- (o) Negative mixture.

Section-B Marks : 5 Each

2. Draw a comparison between analog and digital indicating instrument.
3. Discuss the various liquid-liquid mixing equipment.

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(3)

4. Discuss the form mechanisms of size reduction.
5. Describe the preparation of purified water using simple distillation assembly
6. Discuss the design of a reactor for the preparation of antibiotics.

Section-C Marks : 10 Each

7. Discuss the factors affecting evaporation and describe evaporation under reduced pressure.
8. Describe the various types of steam traps.
9. How are the number of theoretical plates determined ?
10. Describe the various methods for classification of fluids.

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