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Total No. of Pages : 02

Total No. of Questions : 13

B.Pharma (2017 & Onwards) (Sem.-3)**PHARMACEUTICAL ENGINEERING**

Subject Code : BP-304T

M.Code : 75108

Time : 3 Hrs.

Max. Marks : 75

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains THREE questions carrying TEN marks each and student has to attempt any TWO questions.
3. SECTION-C contains NINE questions carrying FIVE marks each and student has to attempt any SEVEN questions.

SECTION-A**1. Explain briefly :**

- a. Reynold's No.
- b. Impact as a mechanism of size reduction
- c. Elutriation
- d. Fourier's Law
- e. Film evaporators
- f. Radial flow
- g. Fluidization
- h. Centrifugal effect
- i. Volatility
- j. Filter aids



**SECTION-B**

2. Describe the construction and working of perforated and non perforated basket centrifuge.
3. Describe the theory behind corrosion and write a note on types of corrosion.
4. Write an explanatory note on rising film and falling film evaporators.

SECTION-C

5. Write a note on various factors affecting evaporation.
6. Discuss the construction and working of rotary drum filters.
7. Discuss the principle and construction of orifice meter.
8. Write a note on heat interchangers.
9. Describe construction and working of hammer mill.
10. Write a note on conveyors.
11. Discuss the principle of flash distillation.
12. Write a note on Silverson mixers.
13. Describe the various factors affecting evaporation.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

