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Total No. of Pages : 02

Total No. of Questions : 13

B.Pharma (2017 Batch) (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. Answer briefly :**

- a. Bernoulli's theorem
- b. Single metal corrosion
- c. Volatility
- d. Darcy Law
- e. Reynold Number
- f. Distillation
- g. Attrition as method of size reduction
- h. Filter aids
- i. Glass as a material of plant construction
- j. Steam distillation



SECTION-B

2. Describe the types of manometers and their applications. Write a note on various types of energy losses.
3. Describe the mechanisms and laws governing size reduction. Write a note on cyclone separator
4. Describe the construction and working of film evaporators.

SECTION-C

5. Write a note on construction and working of filter leaf.
6. What is corrosion? Describe the various types of corrosion .
7. Describe the principle of perforated basket centrifuge.
8. Highlight the principle and working of venturimeter .
9. Write a note on sigma blade mixers.
10. Write a note on methods of heat transfer.
11. Discuss the construction and working of Silverson emulsifier.
12. Write a note on mechanisms involved in solid-liquid mixing.
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.