

[Total No. of Questions - 18] [Total No. of Printed Pages - 2]
(2064)

14765

B. Pharmacy 2nd Semester Examination

Unit Operations-I (N.S.)

BP-123

Time : 3 Hours

Max. Marks : 70

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt any two questions from Section-A, any eight questions from Section-B. Section-C is compulsory.

SECTION - A

1. Describe the principle, construction & working of orifice meter and venturimeter.
2. Enumerate various devices used for transportation of solids. Discuss construction & working of belt conveyor.
3. Describe the theories of filtration and the factors affecting rate of filtration. (2×10=20)

SECTION - B

4. Explain the term mass balance & energy balance.
5. Derive the expression for Bernoulli's theorem.
6. Discuss construction & working of turbine pump.
7. Describe electric & fire industrial hazards.
8. Give construction & working of perforated basket centrifuge.
9. Discuss Mier's supersaturation theory.

14765/1050

[P.T.O.]

10. Explain construction & working of Swenson Walker crystallizer.
11. Discuss salient features of humidity charts.
12. Explain principle & working of air conditioner.
13. Discuss steel as material of plant construction. (5×8=40)

SECTION - C

14. Discuss importance of unit operations in pharmaceutical processing.
15. Define crystal lattice & crystal habit.
16. Give applications of humidification & dehumidification.
17. Discuss the parameters used for selection of material of construction of equipments.
18. Give properties of filter aids. (5×2=10)