**B.Pharm 3rd Semester Examination**

**Subject- Pharmaceutical Engineering (BP304T)**

 **Full mark- 75 Time – 3 hours**

 **Answer all the questions.**

1. **Answer all**  (2X 10= 20)
2. What do you mean by levigation?
3. What is a ‘differential head meter’? Name some devices under this category.
4. What is the difference between steady and unsteady state?
5. What is the function of filter aids? Give two examples of filter aids.
6. Enlists the factors affecting corrosion.
7. What are the applications of freeze drying?
8. What is coarse powder?
9. Define hard glass.
10. Define unit process.
11. What do you mean by bound moisture?
12. **Answer any two questions** (10X 2=20)
13. Describe in detail about theory of drying
14. Explain the working, principle and construction of Venturi meter. Write the expression for volumetric flow rate of fluid through it.
15. Describe the various factors affecting size reduction
16. **Answer any 4 questions from section I and 3 from section II** (20+ 15=35)
17. Describe the working principle, Construction, Advantages, Disadvantages and use of following instruments (any four)
18. Drum dryer
19. Meta filter
20. Semicontinuous Centrifuge
21. Ball mill
22. Horizontal tube evaporator
23. Krystal Crystallizer
24. Write short notes on (any three)
25. Theory of centrifugation
26. Prevention of corrosion
27. Specification of standard sieves as per IP
28. Describe the conduction of heat through compound resistances in series
29. Mechanism of filtration