

**Second B. Pharm (Ayurveda) Degree Regular/Supplementary
Examinations March 2025**

Pharmaceutical Engineering

Time: 3 Hours

Total Marks: 100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*

Essays:

(2x10=20)

1. Explain the types of corrosion. Describe the methods for the prevention of corrosion
2. Describe the principle, construction and working of plate and frame filter press with advantages and disadvantages

Answer briefly:

(10x5=50)

3. Add a note on any one rotary pump
4. Explain the construction and working of fluid energy mill
5. Describe the principle and working of spray dryer
6. Discuss the construction and working of Swenson Walker crystallizer
7. Discuss the construction and working of steam distillation
8. Discuss about mechanisms of liquid mixing
9. Explain forced circulation evaporator
10. Describe orifice meter
11. Discuss about chemical hazards and its prevention
12. Explain azeotropic and extractive distillation

Short notes:

(10x3=30)

13. Define wet bulb temperature and its measurement
14. Applications of centrifugation
15. Add a short note on filter media with examples
16. Distinguish between natural and forced convection
17. Principle of fluidized bed dryer
18. Define fans, blowers and compressors
19. Bond's law of size reduction
20. Explain turbines
21. Stefan-Boltzmann law
22. Distinguish between laminar flow and turbulent flow
