QP CODE: 204008	Reg. No:

Second B.Pharm (Ayurveda) Degree Supplementary Examinations April 2019

Pharmaceutical Engineering

Time: 3 Hours Total Marks: 100

Answer all questions.

Essays: (2x10=20)

- 1. Define distillation. Discuss simple distillation in detail.
- 2. What is filtration. Explain rotary drum filter.

Answer briefly: (10x5=50)

- 3. Explain principle, construction, advantages and disadvantages of hammer mill.
- 4. Principle of freeze drying.
- 5. Mier's super saturation theory.
- 6. Basic equations of fluid flow.
- 7. Overall heat transfer coefficient.
- 8. Factors affecting evaporation.
- 9. Any one equipment used for mixing pastes.
- 10. Stainless steel as a material of construction.
- 11. Explain orifice meter for measurement of fluid flow.
- 12. Black body and gray body

Short notes: (10x3=30)

- 13. Define critical moisture content equilibrium moisture content.
- 14. Fractionating columns.
- 15. Importance of crystallization in pharmacy.
- 16. Define centrifugation and classified based on their mechanism.
- 17. Rittinger's theory
- 18. Define volatility and relative volatility.
- 19. Wet bulb temperature
- 20. Types of corrosion
- 21. Prevention of chemical hazards.
- 22. Draw a labeled diagram of Pitot tube and explain the working of same
