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Second B.Pharm (Ayurveda) Degree Regular/Supplementary Examinations April 2021

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 conduction. Explain Fourier's law of heat transfer through a metal wall.
- 2. Define filtration. Explain the principle, construction and working of filter press

Answer briefly: (10x5=50)

- 3. Explain the theories of filtration
- 4. Explain humidity chart and measurement of humidity
- 5. Write the principle, construction and working of an industrial centrifugal filter
- 6. Explain the principle and working of spray dryer
- 7. Explain the theory of crystallization
- 8. Discuss the principle and construction of steam distillation
- 9. Automatic process controlled systems in pharmaceutical industry
- 10. Explain the principle and construction of ball mill
- 11. Describe the construction and working of Venturimeter
- 12. Diaphragm pump

Short notes: (10x3=30)

- 13. Reynolds number and its importance
- 14. Mechanism involved in liquid mixing
- 15. Rittinger's theory and its application
- 16. Screw conveyor
- 17. Factors influencing mixing
- 18. Kirchhoff's law
- 19. Differentiate natural and forced convection
- 20. Caking of crystals and its prevention
- 21. Flash distillation
- 22. Mechanism of humidification
