

QP CODE: 204008

Reg.No:

Second B.Pharm (Ayurveda) Degree Examinations, October 2016

Pharmaceutical Engineering

Time: 3 Hours

Total Marks: 100

- Answer all questions.

Essays:

(2x10=20)

1. Define conduction. Explain in detail about Fourier's law of heat conduction through cylinder or pipes
2. Define size reduction. Classify various equipments for size reduction and add a note on the construction and working of fluid energy mill

Answer briefly:

(10x5=50)

3. Construction and working of agitated batch crystallizer
4. Theory of mixing
5. Automatic process control systems
6. Filter press
7. Concept of boundary layer
8. Stefan Boltzman law and mention its importance
9. Differentiate azeotropic and extractive distillation
10. Construction and working of fluidized bed dryer
11. Working and applications of spray dryer
12. Working and advantages of falling film evaporator

Short notes:

(10x3=30)

13. Differentiate black body and grey body
14. Blowers
15. Flash distillation
16. Differentiate laminar and turbulent flow
17. Filter aids
18. Dew point and its importance
19. Working of continuous horizontal centrifuge
20. Film coefficient
21. Bonds theory
22. Importance of the calculation of theoretical plates
