

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Pharm Degree Examination – 10-Jan-2020

Time: Three Hours**Max. Marks: 70 Marks**

PHARMACEUTICAL ENGINEERING (Revised Scheme 3)

Q.P. CODE: 2614

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary.

LONG ESSAYS (Answer any Two)**2 x 10 = 20 Marks**

1. Define Evaporation. Discuss the principle and working of Film evaporators.
2. Define Distillation. Discuss the principle and working of Steam distillation.
3. Discuss the theory of drying. Explain the working of Freeze dryer with its applications.

SHORT ESSAYS (Answer any Six)**6 x 5 = 30 Marks**

4. Discuss the principle of Hammer mill.
5. Discuss the working of Cyclone separator.
6. Explain about Silverson mixer
7. Discuss the principle of Swenson walker crystallizer.
8. Explain about venture meter.
9. Explain about prevention of corrosion.
10. Explain principle of Multiple effect evaporator.
11. Discuss about Meta filter.

SHORT ANSWERS**10 x 2 = 20 Marks**

12. Uses of Vacuum crystallizer
13. Define size separation, Write its application.
14. Define Supersaturation.
15. Uses of glass as a plant material
16. Define bound and unbound water.
17. Prevention of Vortex formation
18. Uses of CYcloidal formation
19. Applications of chain conveyor
20. Define Sieve number with example.
21. State Fourier's law.
