Rajiv Gandhi University of Health Sciences, Karnataka
III Year B.Pharm Degree Examination – NOV 2017

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 Mixing. Discuss the mechanism of Solid mixing. Select a suitable mixer for solid mixing. Write its principle and working.
2. Explain Mier's Supersaturation theory. Discuss the working of vacuum crystallizer.
3. Explain the theory of Drying. Discuss the working of Tray dryer.

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

4. Explain about Film evaporators.
5. Discuss the principle of Bag filters.
6. Discuss about Flash distillation.
7. Principle of agitated batch crystallizer
8. Explain about Orifice meter.
9. Discuss the factors to be considered for plant location.
10. Discuss the working of Ribbon mixer.
11. Discuss the working of Pneumatic conveyor.

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

12. Write the principle of Ball mill.
13. Uses of Rubber as a plant material
14. Prevention of caking of crystals
15. Applications of Meta filter
16. Explain Stefan-Boltzman law.
17. Uses of standard vertical tube evaporator
18. Define Pitting and galvanic corrosion.
19. Define humid heat and humid volume.
20. Define Vortex formation.
21. Uses of Basket centrifuges

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