

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Pharm Degree Examination – DEC-2018

Time: Three Hours

Max. Marks: 70 Marks

PHYSICAL PHARMACEUTICS (Revised Scheme 3)

Q.P. CODE: 2606

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. Explain non-Newtonian type of flow with rheograms, mechanism and suitable examples.
2. Define adsorption isotherm. Draw various types of adsorption isotherm and explain their behaviour.
3. Write the principle and method involved in the determination of particle size in a powder using Anderson apparatus.

SHORT ESSAYS (Answer any Six)

6 x 5 = 30 Marks

4. What are the structured vehicles and give its importance?
5. What is Bancrofts rule and give its applications.
6. State Hardy-schulze's rule. Explain.
7. Write the different types of inclusion complexes with suitable examples.
8. Differentiate Newtonian and non-Newtonian systems.
9. Explain micellar solubilization in detail with examples.
10. Give the applications of solubility.
11. Write a note on method of determination of P^H .

SHORT ANSWERS

10 x 2 = 20 Marks

12. What is refraction?
13. Define conjugate solutions and consolute temperature.
14. Give any two applications of distribution law.
15. Give BET equation.
16. What is steady state diffusion?
17. Differentiate mobility and fluidity.
18. Zeta potential
19. Gold number
20. Give the uses of suspensions in ophthalmics.
21. Why colloids are charged? Give examples.
