

Supply

Rajiv Gandhi University of Health Sciences, Karnataka
Fourth Semester B. Pharm Degree Examination – 06-May-2025

Time: Three Hours

Max. Marks: 75 Marks

Physical Pharmaceutics - II

Q.P. CODE: 5015

Your answers should be specific to the questions asked

Draw neat labeled diagrams wherever necessary

All the Questions are compulsory.

LONG ESSAYS

2 x 10 = 20 Marks

1. What are colloids? Give example. Explain any four methods of preparation of different types of colloids.

OR

Define Viscosity. Classify different viscometers with examples. With the help of neat diagram explain the principle and working of any one multipoint viscometer.

2. Discuss in detail the theories of emulsion.

SHORT ESSAYS

7 x 5 = 35 Marks

3. Differentiate between drop count and drop weight method by deducing the equations for the same

OR

Note on optical property of colloids.

4. Explain porosity. Give its applications in pharmacy.

OR

Define order of reaction. Explain the substitution method for determination of order of reaction.

5. Explain DME and its applications.
6. Write a note on phase equilibrium in coarse dispersions.
7. With the help of neat diagram explain principle and working of coulter counter method of determine the particle size.
8. How do you improve flow property? Write the equation to determine Carr's index.
9. Explain physical degradation of pharmaceuticals and its preventive measures.

SHORT ANSWERS

10 x 2 = 20 Marks

10. What is yield value? Give its applications.
11. What do you mean by protective colloids? Mention one example for the same.
12. What is Negative thixotropy?
13. Stoke's law
14. Significance of Phase inversion
15. What is bulk density and true density?
16. What is gold number?
17. Define molecularity of reaction with example.
18. Sedimentation volume.
19. Define order of reaction with suitable example.
