

# Rajiv Gandhi University of Health Sciences, Karnataka

## Fourth Semester B. Pharm Degree Examination – JUNE-2019

**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

#### **LONG ESSAYS (Answer any Two)**

**2 x 10 = 20 Marks**

1. Define colloids. Discuss the electrical properties and kinetic properties of colloids.
2. Define and explain in detail Non-Newtonian flow of liquids.
3. Define emulsions. Explain in detail different identification tests for emulsions.

#### **SHORT ESSAYS (Answer any Seven)**

**7 x 5 = 35 Marks**

4. With the help of neat diagram explain Andreason's pipette method to determine the particle size.
5. Discuss the general properties of colloids.
6. Define order of reaction. Explain the differential method for determination of order of reaction.
7. Explain the principle of cup and bob viscometer.
8. Discuss settling of suspensions.
9. With the help of graphical representation explain the weight distribution of powder.
10. Explain the effect of electrolytes on colloids.
11. Discuss the chemical factors affecting chemical degradation of pharmaceutical product.
12. Define angle of repose. Explain the method to determine the same.

#### **SHORT ANSWERS (Answer All)**

**10 x 2 = 20 Marks**

13. What is gold number?
14. What are Bulges and Spurs?
15. Define phase inversion.
16. Classify colloids.
17. Significance of shape factor
18. Define pseudo zero order reaction with example.
19. Differentiate between bulk and true density
20. Define the term microemulsion.
21. Define the term viscosity.
22. Photolytic degradation

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