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Total No. of Questions : 8] *[Total No. of Printed Pages : 2*

Roll No .....

PY-302-CBCS

B.Pharm., III Semester (Non-PCI Scheme)

Examination, June 2020

Choice Based Credit System (CBCS)

Physical Pharmaceutics - II

Time : Three Hours

Maximum Marks : 75

Note: i) Attempt any five questions.
ii) All questions carry equal marks.

1. Describe the concept of HLB system along with its applications and limitations.

2. What are Colloids? Describe optical properties of colloids. Write in detail about stability of colloids.

3. Explain types of suspensions and stability of suspensions. Discuss the concept of structured vehicle in formulation of stable suspension.

4. Describe the theories of emulsification. Emphasize on rheological properties of emulsions.

5. What is thixotropy and mention its applications in the design of pharmaceutical formulations?

6. Write the principle, construction and working of any one viscometer useful in determination of Newtonian flow.

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7. Discuss in detail about physical and chemical factors influencing the chemical degradation of pharmaceutical products.

8. Write short notes on any three of the following.
   a) Non Newtonian system
   b) Plastic and elastic deformation
   c) Photolytic degradation and its preservation
   d) Determination of reaction order.

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