Printed Pages : 1   **Roll No.** ☐☐☐☐☐☐☐☐☐☐☐☐   **BOP242**

B.PHARM.

THEORY EXAMINATION (SEM–IV) 2016-17

PHARMACEUTICS-IV

Time : 3 Hours   *Max. Marks : 100*

Note : *Be precise in your answer.*

SECTION – A

1.   **Explain the following:**   **10 x 2 = 20**

   (a)   Expiry date

   (b)   Powder rhelogy

   (c)   porosity

   (d)   HLB

   (e)   Negative thixotrophy

   (f)   floccules

   (g)   zeta potential

   (h)   yield point

   (i)   micelles

   (j)   salting out

SECTION – B

2.   **Attempt any five of the following questions:**   **5 x 10 = 50**

   (a)   Give various methods for isotonicity adjustment.

   (b)   Discuss various derive properties off powders.

   (c)   What are surface active agents. Explain its soulibilization mechanism.

   (d)   Discuss thinning and thickening system with their application.

   (e)   Give method for determination particle size and size distribution by sieving as per I.P.

   (f)   Classify the viscometers and explain Cup and Bob viscometer .

   (g)   Discuss creaming and cracking of emulsion.

   (h)   Explain the theory of sedimentation.

SECTION – C

Attempt any two of the following questions: **2 x 15 = 30**

3   Compare the different type of colloids. Give the application of colloids in pharmacy.

4   Discuss the electrical properties of interface and explain its application.

5   Discuss factors affecting drug stability and explain accelerated stability.