Printed Pages: 01 **Sub Code: BP403T**

Paper Id: 150301 **Roll No.** | | | | | | | | | | |

B PHARM
(SEM IV) THEORY EXAMINATION 2018-19
PHYSICAL PHARMACEUTICS II

Time: 3 Hours ***Total Marks: 75***

Note: Attempt all Sections. If you require any missing data, choose suitably.

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SECTION – A

1. Attempt *all* questions in brief. **10 x 2 = 20**

a. Define peptization.
b. Explain Schulze -Hardy rule.
c. Give applications of plugflow in formulation.
d. Give example of multipoint viscometer.
e. Define deflocculated suspension.
f. What is term Micro-emulsion.
g. Differentiate between Martin and projected diameter.
h. What are the disadvantage of microscopic method?
i. Give Heckel Equation and its importnace
j. Explain the term kinematic viscostity.

SECTION – B

2. Attempt any two of the following: **2x10 = 20**

a. Explain the non-Newtonian fluisd on the basis of rheogram, molecular mechanism, mathematical equation and suitablexample.
b. Explain the working principle of Andreasen apparatus with the help of a labelled diagram and also give method for size determination.
c. Compute the accelerated stability testing for determination of expiration dating of pharmaceutical dosage forms

SECTION – C

3. Attempt any *five* parts of the following: **7 x 5 = 35**

a. Discuss the electrical properties of colloidal dispersion.
b. Explain the derive properties of powders
c. Describe film the theory of emulsion.
d. What is thixotropy. Give its application in depot injection.
e. Explain the working principle of rotational viscometer with the help of a labelled diagram.
f. Define zero order reactions. Give equations for determining shelf life and half-life for the same.
g. Enumerate the difference between flocculated and deflocculated suspensions