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Total Number of Pages:02

B. PHARM

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15PH401

4th Semester Regular Examination 2016-17

Physical Pharmaceutics- II

BRANCH: Pharmacy

Time: 3 Hours

Max Marks: 100

Q. CODE: Z301

Answer Section 'A' which is compulsory and any Four from Section 'B'.

The figures in the right hand margin indicate marks.

Section A (Answer all the questions)

Q1 Answer the following questions: (2x10)

- a) Diameter observed under microscopic method is _____ diameter.
- b) The instrument used to measure the particle volume is _____
- c) Rheology is _____
- d) Surface tension of a liquid is _____ at Critical temperature.
- e) Electrolytes are added to _____ the zeta potential.
- f) Colloidal particles are seen under _____ microscope.
- g) Solution of protein and starch in water are example of _____ colloids.
- h) Milk is _____ emulsion.
- i) What is glidant and lubricant
- j) Brooke-field viscometer is an example of _____ viscometer.

Q2 Answer the following questions: (2x10)

- a) Write about fundamental properties of powder?
- b) Define shape factor
- c) Characterize surface and interfacial tension. <http://www.bputonline.com>
- d) Explain spurs and bulges
- e) What is strctured vehicle? Describe with suitable example.
- f) Describe about emulsifying agent.
- g) Define stokes diameter.
- h) What is CMC, describe very briefly.
- i) Write about different types of isotherms
- j) Mention the principle of coulter counter.

Section B (Answer any four questions)

- Q3**
- a) What is micromeritics, describe briefly and mention the importance in pharmacy. **(10)**
 - b) Describe about Edmundson equation. **(5)**

- Q4** a) Describe flow behavior of Newtonian and Non-Newtonian system. (10)
b) Write notes on thixotropy (5)
- Q5** Write notes on bput question papers visit <http://www.bputonline.com>
a) Specific surface (5)
b) Angle of repose (5)
c) Spreading coefficient (5)
- Q6** a) Describe about various types of viscometer used to determine viscosity of Newtonian and non-Newtonian fluid. Illustrate about Cup and Bub type viscometer. (10)
b) Define Zeta potential, mention its importance. (5)
- Q7** a) What is surfactant, classify it and mention its importance in pharmacy. (10)
b) Define HLB. (5)
- Q8** a) Illustrate the distinguish features of flocculated and deflocculated suspension. (10)
b) What is Gold number? <http://www.bputonline.com> (5)
- Q9** a) Describe about colloidal dispersion and illustrate the types and properties of colloids. (10)
b) Write about BET equation. (5)

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