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B.Pharm II Year II Semester (R15) Regular & Supplementary Examinations May/June 2018 PHYSICAL PHARMACY – II

Time: 3 hours Max. Marks: 70

PART - A

(Compulsory Question)

- 1 Answer the following: $(10 \times 02 = 20 \text{ Marks})$
 - (a) What is solubility of gases in liquids?
 - (b) Define Fick's second law.
 - (c) Define HLB.
 - (d) What is Langmuir's isotherm?
 - (e) Explain about specific surface area.
 - (f) Give an account on bulkiness of a powder.
 - (g) Define kinematic viscosity.
 - (h) Write short account on non-Newtonian systems.
 - (i) Define suspension.
 - (j) Define emulsion.

PART - B

(Answer all five units, $5 \times 10 = 50 \text{ Marks}$)

UNIT – I

2 Describe in detail on the solubility of liquids in liquids.

OR

Explain the methods to analyze the complexes. Write a note on the application of complexation in pharmacy.

UNIT - II

4 Explain in detail the techniques used for the measurement of adsorption at liquid interfaces.

OR

5 Describe in detail on the electrical properties of interfaces.

(UNIT – III

6 Explain the method of particle size determination using sedimentation method.

OR

7 How will you determine the surface area of a particle? Explain the techniques involved.

UNIT – IV

8 Explain the construction and working of a capillary viscometer with a suitable diagram.

OR

9 Explain the construction and working of a falling ball viscometer with a neat diagram.

[UNIT – V]

Write a note on the types of collards with its application in pharmacy.

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Explain the types of suspension. Write in brief on the sedimentation parameter in a suspension.
