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R13

Code: 13R00405

B.Pharm II Year II Semester (R13) Supplementary Examinations December 2016
PHYSICAL PHARMACY – II

Time: 3 hours   Max. Marks: 70

PART – A
(Compulsory Question)
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1   Answer the following: (10 X 02 = 20 Marks)
   (a)   Define solvent-solute interaction.
   (b)   Give two examples for the solubility of liquids in liquids.
   (c)   Give an example for zero order reaction.
   (d)   Define half life.
   (e)   Mention any two instruments for the measurement of surface tension.
   (f)   Specify two examples for non-ionic surface active agents.
   (g)   Write the applications of porosity.
   (h)   Write an example for Newtonian and non-Newtonian fluids.
   (i)   What is meant by solubilization?
   (j)   Classify the types of suspension.

PART – B
(Answer all five units, 5 X 10 = 50 Marks)

UNIT – I

2   Explain the solubility phenomenon of gases in liquids with example.
OR
3   Discuss the mechanism of complex formation involved in metal and organic molecular complex.

UNIT – II

4   Write the methods involved in the determination of order of reaction.
OR
5   What are the parameters that enhance the drug decomposition? How to improve the stability of drugs.

UNIT – III

6   Discuss in detail freundlich and langmuir isotherms.
OR
7   Classify hydrophilic lipophilic balance scale with respect to its application.

UNIT – IV

8   Enumerate the methods involved in the determination of particle surface area.
OR
9   Mention the methods involved in the determination of viscosity with its application.

UNIT – V

10   Describe the kinetic properties of colloids.
OR
11   Write the methods followed for improving the stability of emulsion.

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