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Total No. of Questions: 10

B.Pharma (2011 to 2016) (Sem.-2)
PHARMACEUTICAL CHEMISTRY-II (Physical Chemistry)

Subject Code : BPHM-202 M.Code : 46212

Time: 3 Hrs. Max. Marks: 80

INSTRUCTION TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of FIFTEEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- SECTION-C contains FOUR questions carrying TEN marks each and students have to attempt any THREE questions.

SECTION-A

1. Explain in brief:

- a) What is Boyle's law?
- b) Explain the term liquid state.
- c) Define the term order of reaction. What are its units?
- d) Define complex reactions.
- e) What are ideal and non-ideal solutions?
- f) What is osmotic pressure?
- g) Define viscosity.
- b) Define surface tension.
- Explain quantum efficiency.
- Define dipole moment. Mention dipole moment of carbon dioxide.
- k) Explain enzyme catalysis.

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- What is parachor?
- m) What is Schrodinger wave equation?
- n) Define quantum mechanics.
- o) What are thermodynamics?

SECTION-B

- Write detailed note on theories of reaction.
- Explain the terms optical rotation and partition coefficients with suitable examples.
- Define homogenous catalysis? Give three examples of homogeneous catalysis each in gaseous phase.
- Define the term order of reaction. How does rate law different from law of mass action?
- Give five postulates of quantum mechanics.

SECTION-C

- Starting from basic postulates of kinetic theory of gases. Derive kinetic gas equation.
- 8. Write Michealis-Menten equation. Explain the symbol used. How can maximum velocity determined?
- What are consequences of light absorption? Discuss in detail jablonski diagram.
- 10. Discuss Freudlich and Gibbs adsorption. What is Langmuir theory of adsorption?

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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