

Roll No.

25510

Total No. of Questions : 10]

[Total No. of Pages : 02

B. Pharmacy (Sem. -2nd)

PHARMACEUTICAL CHEMISTRY-II (Physical Chemistry)

SUBJECT CODE : PHIM - 1.2.3 (2k9 Scheme)

Paper ID : [D0150]

[Note : Please fill subject code and paper ID on OMR]

Time : 03 Hours

Maximum Marks : 80

Instruction to Candidates:

- 1) Section - A is **Compulsory**.
- 2) Attempt any **Four** questions from Section - B.
- 3) Attempt any **Three** questions from Section - C.

Section - A

Q1)

(15 × 2 = 30)

- a) Parachor.
- b) Bond polarity.
- c) Heat of neutralization.
- d) First order kinetics.
- e) Quantum efficiency.
- f) Photosensitizer.
- g) Molar conductance.
- h) Intersystem crossing.
- i) Cell constant.
- j) Colligative Property.
- k) Brownian motion.
- l) Catalyst.
- m) Absolute temperature scale.
- n) Osmosis.
- o) Vander waal constants.

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Section - B

(4 × 5 = 20)

- Q2) Differentiate between order and molecularity of the reaction.
- Q3) Describe the phase rule giving suitable examples.
- Q4) Describe the BET equation to explain the Adsorption.
- Q5) Describe various methods to determine partition coefficient. Describe its significance.
- Q6) State and derive the Henry's Law.

Section - C

(3 × 10 = 30)

- Q7) Describe giving suitable examples the laws of thermodynamics.
- Q8) Describe the utility of Debye Huckel Theory.
- Q9) Derive the Schrodinger wave Equation.
- Q10) Give a detailed account on Enzyme catalysis.



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