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Total Number of Pages : 01

B.Pharm
15PH301

3rd Semester Back Examination 2018-19

PHYSICAL PHARMACEUTICS – I

BRANCH : B.Pharma

Time : 3 Hours

Max Marks : 100

Q.CODE : E913

Answer Question No.1 (Part-1) which is compulsory, any EIGHT from Part-II and any TWO from Part-III.

The figures in the right hand margin indicate marks.

Part- I

Q1 Short Answer Type Questions (Answer All-10)

(2 x 10)

- Define Solution
- Define Solubility
- Define pH
- Define Isotonic Solution
- Define Critical Solution Temperature
- What do you mean by Stability
- What do you mean by polymorphism
- What do you mean by TPD
- Define Isotonic solution
- How would you express solubility

Part- II

Q2 Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve)

(6 x 8)

- Discuss Buffers and its role in formulation
- How would you prepare buffers?
- How would you calculate Expiry date of Products
- Discuss Chemical Kinetics
- Discuss Eutectic mixture and its importance in formulation
- Describe Phase Rule.
- What do you mean by Critical temperature and triple point
- Discuss critical solution temperature and Lower Consolute temperature
- Describe a method of determine solubility
- Discuss two component system taking phenol water system.
- What is Complexation, state its different types.
- What do you mean by Buffer capacity and how would you determine it.

Part-III

Long Answer Type Questions (Answer Any Two out of Four)

Q3 Describe methods for preparation of isotonic solution.

(16)

Q4 Describe method for conducting stability test of formulated product

(16)

Q5 Describe Van't Hoff Equation and Clausius Clapeyron eq.

(16)

Q6 Discuss different state of matters also liquid crystal.

(16)