

B.Pharm. (CBCS Pattern) Semester - V
BP502T - Industrial Pharmacy-I

P. Pages : 3

Time : Three Hours



GUG/S/23/13184

Max. Marks : 75

- Notes :
1. All questions are compulsory.
 2. Diagrams and Chemical equation should be given wherever necessary.
 3. Illustrate your answers wherever necessary with the help of neat sketches.

1. Multiple Choice Questions

20

- i) For good bioavailability what is needed
 - a) Good solubility
 - b) Good permeability
 - c) Good solubility & poor permeability
 - d) Good solubility & good permeability
- ii) ISO electric point of Type 'A' gelatin is -----
 - a) Between 7 and 9
 - b) Between 4.7 and 5.3
 - c) 10
 - d) Between 12 and 15
- iii) For stable emulsion phase volume ratio is
 - a) 52/48
 - b) 26/74
 - c) 74/26
 - d) 48/52
- iv) In which type of suspension, particles form loose aggregates.
 - a) Deflocculated suspension
 - b) Flocculated suspension
 - c) Both a & b
 - d) None of these
- v) Can track are used in tablet for -----
 - a) Feeding the granules
 - b) Adjust shape
 - c) Guiding movement purchase
 - d) Compress the granules
- vi) Segregation of a tablet into two or more layer is known as -----
 - a) Capping
 - b) Lamination
 - c) Chipping
 - d) Spheronization
- vii) Which of the following is the state of nucleation phase
 - a) Pendular
 - b) Capillary
 - c) Funicular
 - d) All of these
- viii) Hausner's ratio is calculated by -----
 - a) $H.R = \frac{\text{Tapped density}}{\text{Bulk density}}$
 - b) $H.R = \frac{\text{Poured density}}{\text{Tapped density}}$
 - c) $H.R = \frac{\text{Bulk density}}{\text{True density}}$
 - d) $H.R = \frac{\text{Bulk density}}{\text{Void volume}}$
- ix) Preformulation is about -----
 - a) Stability
 - b) Safety
 - c) Efficacy
 - d) All of these

2. Solve **any two**. **2x10**
=20
- a) Explain Quality control tests for Tablets.
 - b) Explain in detail formulation and production of parenterals.
 - c) Write the evaluation and Quality control tests of Aerosols.

3. Solve **any seven**. **5x7**
=35
- a) Explain defects in tablet coating.
 - b) Write a note on formulation of lipsticks.
 - c) Describe the manufacturing of Hard gelatin capsules.
 - d) Write a note on factors influencing choice of containers.
 - e) Write a note on pelletization process.
 - f) How flow properties of powders are measured?
 - g) Explain the factors affecting selection of pharmaceutical packaging materials.
 - h) Elaborate water attack test USP and powder glass test USP for packaging glass.
 - i) What are pyrogens? Discuss the pyrogen test for injectables.
