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Total No. of Pages : 02

Total No. of Questions : 22

**B.Pharma (2017 Batch) (Sem.-5)**  
**INDUSTRIAL PHARMACY-I (THEORY)**  
**Subject Code : BP-502T**  
**M.Code : 76787**

Time : 3 Hrs.

Max. Marks : 75

**INSTRUCTIONS TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains THREE questions carrying TEN marks each and student has to attempt any TWO questions.
3. SECTION-C contains NINE questions carrying FIVE marks each and student has to attempt any SEVEN questions.

**SECTION-A**

**Define :**

1. Henderson-Hasselbalch equation.
2. Difference between gelatin A and gelatin B.
3. Diagrammatic representation of BCS classification.
4. Difference between I.P. syrup and U.S.P. syrup.
5. Flow properties.
6. Examples of two enteric coating polymeric materials.
7. Disintegration apparatus.
8. Material of construction of dip tube and gasket in aerosols.
9. Flame extension test.
10. Types of glass as packaging material.

### SECTION-B

11. Explain the objectives of preformulation studies. Describe the significance of polymorphism and particle size in preformulation studies.
12. Discuss different manufacturing defects of tablets along with the causes and remedies.
13. Discuss the pharmaceutical and physiological considerations in formulation of parenterals.

### SECTION C

14. Discuss the significance of partition coefficient in preformulation.
15. Enumerate quality control tests of lipsticks and discuss any one in detail.
16. Discuss the manufacturing of elixirs.
17. Discuss the process of filling of hard gelatin capsules.
18. Explain the significance of isotonicity with respect to ophthalmics.
19. How vanishing creams are formulated?
20. How nomenclature of propellants is done?
21. Discuss pelletization.
22. Briefly discuss stability aspect of packaging material.

**NOTE : Disclosure of identity by writing mobile number or making passing request on any page of Answer sheet will lead to UMC against the Student.**