



**JBL-2**

Seat No. \_\_\_\_\_

**M. P. M. (Sem. V) Examination**

**December – 2019**

**Industrial Pharmacy-I**

Time : 3 Hours]

[Total Marks : 75

- 1 Answer the following questions **10×2=20**
- a) Explain polymorphism with examples.
  - b) Write about the applications of preformulation considerations in the development of dosage forms.
  - c) Define and classify tablets.
  - d) Differentiate hard gelatin and soft gelatin capsules.
  - e) Enlist the advantages and limitations of parenteral dosage forms.
  - f) Enlist the quality control tests for parenterals.
  - g) Write about the formulation considerations for ophthalmic preparations.
  - h) Define sunscreens. Enlist the components used in the formulation of tooth paste.
  - i) Enlist the types of propellents with examples.
  - j) Enlist the ideal characteristics of tablets.
- 2 Answer any two out of the following **2×10=20**
- a) What are pharmaceutical aerosols? Write in detail about the types, manufacturing and evaluation of aerosols.
  - b) Write a note on coating of tablets.
  - c) Classify and write in detail about the production of parenteral dosage forms.

- 3** Answer any 7 out of the following. **7×5=35**
- a) Write a note on BCS classification of drugs and its significance.
  - b) Write a short note on wet granulation.
  - c) Write a short note on pellets.
  - d) Write a brief note on chemical properties in preformulation, studies.
  - e) Explain in detail the quality control tests for tablets.
  - f) Explain the formulation and the manufacturing considerations of syrups and elixirs.
  - g) Write a short note on the production of hard gelatine capsule shells.
  - h) Write a short note on coating defects.
  - i) Write in brief about the materials used for packaging of pharmaceutical products and write about the factors influencing the choice of materials.
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