

PHARMACEUTICS

Time Allowed 3 Hours

Full Marks: 80

1. Fill up the blanks with appropriate word(s) (Any ten):**1x10**

- i) The first edition of IP was published in the year _____.
- ii) Methylparaben, propylparaben are examples of _____.
- iii) Fibrous materials are size reduced by _____ mill.
- iv) Triple roller mill is used for the preparation of _____.
- v) Soxhlet apparatus is used in _____.
- vi) Darcy's Law is associated with _____.
- vii) _____ is a manufacturing defect of tablet.
- viii) Example of Glidant in Tablet preparation is _____.
- ix) Enteric coated tablets disintegrate in _____.
- x) The biggest capsule size is denoted by _____.
- xi) Ball mill works on the principle of _____.

2. Write short note (Any ten) :**1x10**

- a) Suppository b) Mixture c) BCG vaccine d) Lyophilization e) Emulsifying agents
- f) GMP g) Percolation h) Uses of Cyclone separator i) Ointments
- j) LVP k) Soda lime Glass

3. Short answer type questions (Any ten):**3x10**

- i) Discuss the advantages of granules compared to powder.
- ii) Differentiate between Infusion & Maceration.
- iii) What do you understand by dosage form? Classify.
- iv) Differentiate between Active & Passive immunity.
- v) Define preservatives. Classify Preservatives based on their mechanism of action.
- vi) Discuss the factors affecting filtration.
- vii) Discuss the ideal properties of packaging materials.
- viii) Write a note on Soft Gelatin Capsule.
- ix) What are the objectives of mixing?
- x) Classify powder as per IP grade.
- xi) Classify preservatives as per source, solubility, dosage form, food items, parenteral preparation, topical preparation etc.

4. Long answer type questions (Any six):

5x6

- i) Define Extraction. Briefly discuss Maceration and Percolation. 1+2+2
- ii) What do you mean by QC & QA? Differentiate between QC & QA. 2+3
- iii) What is Immunity? Name different types of Immunity. What do you mean by "vaccine"? Name different types of vaccines with examples. 1+1+1+2
- iv) Various steps involved in preparation of Sugar Coating Tablets.
- v) Write about the working of the Fluid Bed Dryer.
- vi) Flow chart of Steps involved in wet granulation tablet preparation.
- vii) Discuss the advantages of Capsule. Differentiate between hard gelatin and soft gelatin capsules.