

DO NOT WRITE ANYTHING ON YOUR QUESTION PAPER EXCEPT YOUR ROLL NO. QUESTION PAPER CONTAINING ANYTHING WOULD BE TREATED AS MALPRACTICE ANSWER THE QUESTION SERIALY AND CONTINUOUSLY

Subject: PHARMACEUTICS (Theory)

Full Mark -80

Time -3 hrs

(Answer any five questions including question No. 1)

1. **Long type question (answer any six)** (6 x 5)
- Define drying. Explain details about freeze dryer with neat and clean diagram.
 - Discuss the advantages and disadvantages of plastic as packaging materials
 - Explain principle, construction and working condition of cyclone separator.
 - What is Toxoid ? Write the general methods of preparation of Toxoids.
 - What is extraction? Write down the details about soxhlation
 - Explain details about continuous hot percolation method with neat and clean diagram.
 - Classify the novel drug delivery systems (NDDS) with examples. Write the advantages of novel drug delivery systems.
2. **Short type question (answer any ten)** (10 x 3)
- Define preservatives. Mention various types of preservatives used in pharmaceutical preparations.
 - Write short note on Sustained release tablets.
 - Define of the followings :
i) Creams ii) Vaccines iii) Emulsion
 - Write any three polymers used for film and enteric coated tablets.
 - Write different excipients used for processing of capsule with examples.
 - Give advantages, disadvantages and applications of sterilization by ionizing radiation.
 - Define lamination problem with its remedy.
 - What are the differences between syrup and elixir?
 - Write details about extra pharmacopoeia.
 - Write & explain Darcy's law.
 - Write notes on Erythrocytes as a drug carrier.
3. **(A) Answer the followings. (Answer All)** (20 x 1)
- Give one major differences between disintegration and dissolution.
 - Give one difference between compressed tablet and moulded tablet.
 - Write about sterilization of plastic containers.
 - Classify acquired immunity
 - Write disadvantages of Glass
- (B) Define the followings:**
- | | | | |
|--------------|------------------------|--------------------|-------------------|
| i) Capsule | ii) Pharmaceutical aid | iii) Hygroscopic | iv) Antitoxin |
| v) Autoclave | vi) Nano emulsion | vii) Nasal drop | viii) Trituration |
| ix) Mixing | x) Exsiccation | xi) Plasticiser | xii) Creaming |
| xiii) Paste | xiv) Vulcanising Agent | xv) Sintered Glass | |
