

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

Subject: PHARMACEUTICS (Theory)

Full Mark -80

Time -3 hrs

1. Long type questions (Answer any six) (5x6)

- i) Define Q.A. & Q.C. Write briefly about cGMP.
- ii) Discuss the advantages and disadvantages of plastic as packaging materials.
- iii) Define drying. Explain details about freeze dryer with neat and clean diagram.
- iv) Write down the principles, construction, working and application of Ball Mill with labelled diagram.
- v) Write down different methods used in formulation of parenteral preparations.
- vi) Define immunity. Write down the details about small pox vaccine.
- vii) Define suppository. Write about method of preparation of suppository.

2. Short type questions (any ten): (10x3)

- i) Classify the powders according to Indian Pharmacopoeia.
- ii) Write in brief about phagocytosis.
- iii) Write down advantages, disadvantages and applications of sterilization by ionizing radiation.
- iv) Define preservatives. Mention various types of preservatives used in pharmaceutical Preparations.
- v) Write any three polymers used for film and enteric coated tablets.
- vi) Write notes on Erythrocytes as a drug carrier.
- vii) Write & explain Darcy's law
- viii) Differentiate between calibration and validation.
- ix) Define lamination problem with its remedy.
- x) Write details about modified percolation process.
- xi) Write short note on Sustained release tablets.

3. Answer all :

(A) Answer the followings

- i) Write down one example of hydrophobic binder.
- ii) One major difference between disintegration & dissolution.
- iii) Write down two examples of wetting agent.
- iv) What is Prodrug?
- v) Write disadvantages of Glass container.

(20x1)

(B) Define the followings (In 20 words)

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|--------------------|------------------|-----------------------|------------------|
| i) Capsule | ii) Co-solvent | iii) Creaming | iv) Exsiccation |
| v) Filter aid | vi) Impact | vii) Lyophilisation | viii) Maceration |
| ix) Mixing | x) Nano emulsion | xi) Poultice | xii) Paste |
| xiii) Sieve number | xiv) Nasal Drop | xv) Vulcanising Agent | |


