

0805

21222

3 Hours / 80 Marks

Seat No.

--	--	--	--	--	--	--	--

15 minutes extra for each hour

- Instructions* – (1) All Questions are *Compulsory*.
- (2) Answer each next main Question on a new page.
- (3) Illustrate your answers with neat sketches wherever necessary.
- (4) Figures to the right indicate full marks.
- (5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Answer any TEN of the following : **20**
- Enlist the method of size reduction of powder.
 - State the ideal properties of menstruum used for extraction.
 - Name the different types of closures used.
 - Give application of Freeze drying.
 - Why injectables are not to be stored in soda lime glass container?
 - What are unit packing? Give two examples.
 - Define.
 - Suspension
 - Syrup
 - What are main objective of mixing?
 - Define Pharmacopoeia. When IInd edition of pharmacopoeia was published?

P.T.O.

- j) Give merits of liquid dosage form.
- k) Define the term menstruum and marc.
- l) Give advantages of Evaporating still.
- m) Define term sieve number. Enlist equipments used for size separation.

2. Answer any FOUR of the following: 12

- a) Why there is need for formulation of different dosage forms?
- b) Draw a well labelled diagram of cyclone separator and describe its working.
- c) Explain the official grades of powder.
- d) Discuss construction of Hammer mill with neat diagram.
- e) Differentiate between maceration of organized drug and unorganized drugs.
- f) Define Aerosol packaging. Enumerate its advantages and disadvantages.

3. Answer any FOUR of the following: 12

- a) Explain factors affecting rate of filtration by Darcy's law.
- b) Define the term 'Filer aids'. Write the four qualities of an ideal aids.
- c) Explain the double maceration process for extraction of drugs.
- d) What are salient features of Third edition of I.P.?
- e) How many parts of 85%, 65%, 45% and 25% of alcohol should be mixed, to get 55% of alcohol, 500 ml.
- f) Explain construction of Vacuum Dryer with neat diagram.

- 4. Answer any FOUR of the following:** **12**
- a) Explain various stages of sugar coating of tablet.
 - b) Explain the principle of steam distillation and give its application in pharmacy.
 - c) Give construction and working of Silverson's Mixer Homogeniser.
 - d) What do you mean by Glidant, antiadherent and lubricants? Explain their role with example.
 - e) Give the construction and working of fluid energy mill.
 - f) Draw a well labelled diagram of soxhlet apparatus.
- 5. Answer any FOUR of the following:** **12**
- a) Give difference between Active Immunity and Passive Immunity.
 - b) Explain working of Hand operated capsule filling machine.
 - c) Describe the various factors which affect rate of evaporation.
 - d) Give the principle, method and application of sterilization by Autoclaving.
 - e) Define Drying. Give application of drying in Pharmacy.
 - f) Why tablets are coated? and give the types of coatings.
- 6. Answer any FOUR of the following:** **12**
- a) Discuss in brief the disintegration test for uncoated tablets.
 - b) Explain method of preparation of small pox vaccine using Egg.
 - c) What are advantages of Novel Drug delivery system? What are liposomes.
 - d) State manufacturing defects in tablets. Write note on capping.
 - e) Define capsule and differentiate between Hard gelatin capsules and soft gelatin capsules.
 - f) Explain construction of Fluidized Bed dryer.
-