

23242

3 Hours / 80 Marks



20111

Seat No.

6	8	9	6	9	8	8
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- Instructions –**
- (1) All Questions are Compulsory.
  - (2) Illustrate your answers with neat sketches wherever necessary.
  - (3) Figures to the right indicate full marks.
  - (4) Assume suitable data, if necessary.
  - (5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

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1. Attempt any **SIX** of the following :

- a) Discuss development of pharmacy profession in India.
- b) What are different types of containers commonly used in pharmacy? Write in brief about glass containers.
- c) Define preservatives. Write its types with examples and uses.
- d) Define size reduction. Write in detail about ball mill.
- e) Enlist excipients in tablet. Define sustain release tablet, Extended release tablet, fast dissolving tablet multi layered tablet.
- f) Draw a layout design of pharmaceutical manufacturing plant. Write its sections and activities.
- g) Define Novel drug delivery system. How will you classify it? Write in brief about examples and challenges in Novel drug delivery system.

2. Attempt any **TEN** of the following :

- a) Define quality control, quality assurance and CGMP.
- b) Give in brief the method of preparation of smallpox vaccine.
- c) Describe the method of preparation of effervescent granules.
- d) Define ointment. Write classification of ointment bases.
- e) How will you differentiate between a hard gelatin capsule and soft gelatin capsule?
- f) Define extraction. Write classification of extraction.
- g) Draw a well labelled diagram of F.B.D. write its principle.
- h) Draw a well labelled diagram of Tripple roller mill. Write its advantages and disadvantages.
- i) Define pharmaceutical aid-write role of colouring, flavoring and sweetening agents.
- j) Write about career opportunities in pharmacy.
- k) Write short note on Indian pharmacopeia.

Marks

30

30



20111

[ 2 ]



Marks

20

3. Attempt ALL of the following :

- a) Define extended-release tablet.
- b) Define elixir
- c) Write full form of USP (U.S.P.)
- d) Define container
- e) The disintegration time for coated tablet is \_\_\_\_\_ minutes.
- f) What is use of Non-staining Iodine ointment.
- g) Which is the most commonly used vehicle in eye drops?
- h) Define Pessaries.
- i) Name any two preservatives.
- j) The rate of filtration is \_\_\_\_\_ proportional to the surface area of filter media.
- k) Hammer mill work on principle of \_\_\_\_\_.
- l) In cyclone separator the powder is separated depending on its
  - i) Particle size
  - ii) Density of particle
  - iii) Shape of powder
  - iv) Particle size and density
- m) Sublimation of water from ice phase to gas phase is known as \_\_\_\_\_
- n) The \_\_\_\_\_ drugs cannot be filled in hard gelatin capsule.
- o) Dusting powder is dispensed in \_\_\_\_\_ container.
- p) Gum acacia is used as \_\_\_\_\_ in emulsion.
  - i) Solvent
  - ii) Solute
  - iii) Emulsifying agent
  - iv) Colourant
- q) Solution is stored in \_\_\_\_\_
  - i) Wide mouth bottle
  - ii) Narrow mouth bottle
  - iii) Both i) and ii)
  - iv) None of above
- r) Name two identification test for emulsion.
- s) Solutions are which type of liquids?
  - i) Bi-phasic
  - ii) Monophasic
  - iii) Suspension
  - iv) Other than these
- t) What is the use of glycerin in elixir?
  - i) Preservative
  - ii) Vehicle
  - iii) Colouring agent
  - iv) Flavouring agent