

23242

3 Hours / 80 Marks



20111

Seat No.

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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.

Marks

1. Attempt any SIX of the following :

30

- 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 :

30

- 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 Triple 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.

P.T.O.

**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