

12425

03 Hours / 80 Marks



20111

Seat No. 

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- 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. **Attempt any SIX of the following:** **30**
  - a) Explain Pharmacy as a career.
  - b) Explain Principle, Construction, Working and application of Silverson Mixer.
  - c) Explain the types of coating of tablets.
  - d) Define capsules. Differentiate between hard gelatin and soft gelatin capsules.
  - e) Define Emulsion and explain methods of Emulsion preparation.
  - f) Define powders and give its classification, Write advantage and disadvantages of powder.
  - g) Explain briefly SVP and LVP.
  
2. **Attempt any TEN of the following :** **30**
  - a) Explain any two types of packaging materials.
  - b) Explain the working and application of Ball mill.
  - c) Name the quality control tests of tablets.
  - d) Define and classify ointments.
  - e) Define creams and classify with examples.
  - f) Define Ear drops and state one formula with method of preparation of ear drops.
  - g) Write method of preparation of effervescent granules.
  - h) Explain Pharmaceutical Plant Layout.
  - i) State the outline of GMP.
  - j) Classify with example Controlled Release Drug Delivery System.
  - k) State the advantages of Novel Drug Delivery System.
  
3. **Attempt ALL questions.** **20**
  - a) Who is stated Hindu god of medicine ?
  - b) Define Pharmacopoeia.
  - c) When and where first Pharma Company started in India.
  - d) Define Packaging.
  - e) Define closures.
  - f) Define Pharmaceutical aid.
  - g) Name any four colouring agents.

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- h) Define preservative.
  - i) Name mechanisms involved in Size Reduction.
  - j) Enlist various grades of powder.
  - k) Define sieve number.
  - l) Enlist methods of Extraction.
  - m) Film coated tablets are coated by \_\_\_\_\_.
    - i) Polymers
    - ii) Sugar
    - iii) Gelatin
  - n) What agents are used in wet granulation
    - i) Binding agents
    - ii) Emulsifiers
    - iii) Suspending agents
  - o) What are Elixirs.
    - i) Aqueous sol
    - ii) hydro-alcoholic
    - iii) biphasic
  - p) Antibiotic ointment are used to
    - i) Kill micro-organism
    - ii) Kill fungi
    - iii) Both
  - q) In simple ointment wool fat is used as
    - i) Base
    - ii) Emollient
    - iii) Stiffening agents
  - r) Nasal drops are stored at temperature
    - i) 40 – 50°C
    - ii) 50 – 60°C
    - iii) 20 – 25°C
  - s) Drug absorption from nasal spray is
    - i) slow
    - ii) rapid
    - iii) None of these.
  - t) Sterile formulation should be
    - i) hypotonic
    - ii) hypertonic
    - iii) Isotonic
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