

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 :

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- 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.

P.T.O.



- 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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