

20111

21222

3 Hours / 80 Marks

Seat No.

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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 SIX of the following: **30****
- a) Define capsules with its advantages and disadvantages. Differentiate between hard and soft gelatin capsules.
- b) Explain principle, construction, working of Hammer mill and applications with a neat labelled diagram.
- c) Define emulsion. Describe the manufacturing, packaging, labelling and storage of dry powder for reconstitution.
- d) Define tablet. Explain the different steps in film coating of tablets.
- e) Define eye drops. Explain various excipients used in eye drops.
- f) Define sera. Describe the preparation, storage use and dose of Typhoid vaccine.
- g) Define pharmacopoeia. Name the various editions of I.P. published with the year and their publications. Write any four salient features and 5th edition of I.P.

P.T.O.

2. Answer any TEN of the following: 30
- a) What are the ideal requirements of eye ointments.
 - b) Explain classification of powders according to I.P.
 - c) Write advantages and disadvantages of glass as a packaging material.
 - d) Explain the concepts of Quality assurance and Quality control in Pharma Industry.
 - e) Define Injectables. Write classifications / types of injectables.
 - f) Define capsule. Explain processing of hard gelatin capsule.
 - g) Define N.D.D.S. Classify with examples.
 - h) Describe advantages and challenges in N.D.D.S.
 - i) Differentiate between creams and pastes.
 - j) Define coating of tablet. Describe the method of coating.
 - k) Explain concept of calibration and validation.
3. Answer ALL Questions of the following: 20
- a) Calamine lotion is used as a _____.
 - b) Define Container.
 - c) Why water is used as commonly vehicle?
 - d) Define extended-release tablet.
 - e) Define elixir.
 - f) The 8th edition of I.P. was published in the year _____.
 - g) Define quality control.
 - h) Define Drying.
 - i) Define extraction.
 - j) Define size reduction.
 - k) Who organizes the Indian Pharmaceutical Congress every year?
 - i) Indian Pharmaceutical Congress
 - ii) Indian Pharmaceutical Congress Association
 - iii) Indian Pharmacy Graduates Association
 - iv) Indian Pharmaceutical Association

- l) Who is known as the “Father of Pharmacy Education in India”?
- Acharya RC Ray
 - Porf. Mahadev Lal Shroff
 - Sushruta
 - Charaka
- m) The word ‘Pharmacy’ is derived from the Greek word
- Pharmaces
 - Pharma
 - Pharmacisto
 - Pharmakon
- n) Most simple and most frequently used method for size separation is _____.
- Sieve shaker
 - Cyclone separator
 - Air separator
 - Elutriation
- o) Ball mill work on the principal of
- Impact
 - Attrition
 - Crushing
 - Impact and attrition
- p) Simple syrup is a saturated solution of _____.
- Sucrose
 - Fructose
 - Dextrose
 - None of these
- q) The first edition of I.P was published in _____.
- 1965
 - 1975
 - 1955
 - 1985

- r) Who is the father of medicine?
- i) Ebers
 - ii) Hippocrates
 - iii) Egyption
 - iv) Pontus
- s) The efficiency of a ball mill is maximum at
- i) Low speed
 - ii) High speed
 - iii) Very speed
 - iv) $2/3^{\text{rd}}$ speed
- t) What is USP?
- i) The United States Pharmacology
 - ii) The United States Pharmacy
 - iii) The United States Pharmacopoeia
 - iv) The United States Pharmaceuticals
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