

12526

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) Define tablet and classify with example.
- b) Write a note on manufacturing of Hard gelatin capsules with neat labelled diagramme.
- c) Define pharmacopoeia, enlist various edition of I.P. and write any four sailent features of 8th edition of I.P.
- d) Describe various route of administration of injection and write advantage, disadvantage of injection.
- e) What are syrup and classify it ? Discuss it's method of preparation.
- f) Define size separation and explain construction, working, uses of cyclone separator with neat labelled diagramme.
- g) Describe the method of preparation of BCG vaccine with dose, storage and uses.

2. Attempt any TEN of the following :

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- a) Define parenteral and discuss various excipients used in injectables.
- b) Explain different steps in sugar coating of tablets.
- c) Classify novel drug delivery system with example. (Any six)
- d) Give the advantages and disadvantages of plastic.
- e) Explain the types of ointments.
- f) Write preparation method of effervescent granules.
- g) Describe various defects in tablets.
- h) Define size reduction and discuss construction and working of double cone blender.
- i) What are the challenger in development of Novel drug delivery system.
- j) Enlist six ideal characteristics of suppository base.
- k) Differentiate between Quality control and Quality Assurance.

3. Attempt ALL of the following :

- a) The first pharmacy college in Asia was established in –
 - i) Beijing
 - ii) Goa
 - iii) Dhaka
 - iv) Colombo
 - b) Define vaccine.
 - c) In nasal preparation mostly ----- is used as vehicle.
 - d) Write any two binding agents used in formulation of tablets.
 - e) Define capsule.
 - f) Pharmacy council of India is established in year.
 - i) 1970
 - ii) 1953
 - iii) 1949
 - iv) 1948
 - g) Type I glass is also known as –
 - i) Regular soda lime glass
 - ii) Treated soda lime glass
 - iii) Borosilicale glass
 - iv) None of the above.
 - h) Benzalkonium chloride used as ----- in pharmaceutical preparation.
 - i) Principle of Ball mill is -----
 - j) Define Elixir.
 - k) Enlist any two preparation method of suppositories.
 - l) Disintegration time for film-coated tablets is ----- minutes.
 - m) Hard paraffin IP is which type of ointment base.
 - i) Hydrocarbon bases
 - ii) Absorption bases
 - iii) Water miscible bases
 - iv) Water soluble bases
 - n) What is use of Gelling agent in Gels.
 - o) Enlist any two types of Nasal preparation.
 - p) Seventh edition of Indian pharmacopoeia published in ----- year.
 - q) Vulcanization process is applied in the manufacturing of –
 - i) Glass
 - ii) Plastics
 - iii) Metals
 - iv) Rubber
 - r) Enlist any two Natural flavoring agents.
 - s) In Friability test chamber is rotated for ----- revolutions.
 - t) Enlist any two Artificial colouring agent.
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