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Azara, Haikhowapara
Guwahati - 781017

BP 103 T

Roll No. of candidate

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2023

B.Pharm. 1st Semester End-Term Examination

PHARMACEUTICS - I (THEORY)

(New Regulation)

Full Marks - 75

Time - Three hours

The figures in the margin indicate full marks for the questions.

1. Answer the following (MCQ) : (20 × 1 = 20)
- (i) The Indian Pharmacopoeial list in 1946 contained about _____ monographs.
- (a) 110 (b) 180
(c) 100 (d) 90
- (ii) _____ is an example of solid unit dosage form.
- (a) Pill (b) Tablet
(c) Both (a) and (b) (d) None of these
- (iii) The computer-generated structural formulae have been introduced in _____ edition of Indian Pharmacopoeia.
- (a) Fourth (b) Fifth
(c) Seventh (d) Sixth
- (iv) The prescription with narcotic or other habit-forming drugs must bear the following :
- (a) Date (b) Signature
(c) Subscription (d) None of these
- (v) Superscription is represented by the symbol
- (a) Rx (b) RX
(c) rx (d) rX

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- (vi) Non drug components in the dosage form are called as _____.
- (a) Additives (b) Drug
(c) Solvent (d) Formulation
- (vii) Abbreviations in a prescription are written in _____ language.
- (a) Latin (b) English
(c) Both (a) and (b) (d) None of these
- (viii) The dose is usually based on the _____ of an adult patient.
- (a) Average requirement (b) Requirement
(c) Average dose (d) None of these
- (ix) _____ is the storage temperature for suppositories.
- (a) 10°-20° C (b) 20°-40° C
(c) 30°-60° C (d) 10°-15° C
- (x) The term Posology is derived from two _____ words.
- (a) Latin (b) Greek
(c) English (d) Hindi
- (xi) The effectiveness of drug formulation is generally controlled by its _____ of administration.
- (a) Route (b) Time
(c) Both (a) and (b) (d) None of these
- (xii) Strong purgatives should be avoided in women during _____.
- (a) Menstruation (b) Pregnancy
(c) Lactation (d) None of these
- (xiii) What is the appropriate size of globules for fine emulsion?
- (a) 0.25 – 25 micrometer (b) 0.25 – 5 micrometer
(c) Both (a) and (b) (d) None of these
- (xiv) 1 drop is equal to how many ml?
- (a) 0.05 ml (b) 1.00 ml
(c) 2.00 ml (d) None of these

(xv) The concentration of sucrose in syrup is _____.

- (a) 66.7% W/W (b) 60.0% W/W
(c) 50.0% W/W (d) 70.0% W/W

(xvi) The metric equivalent of 1 fluid drachm is _____.

- (a) 4 ml (b) 2 ml
(c) 1 ml (d) 6 ml

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(xvii) 1 minim = _____ ml.

- (a) 0.06 (b) 1.00
(c) 3.00 (d) 2.00

(xviii) What is the minimum quantity that can be weighed on dispensing balance?

- (a) 100 mg (b) 200 mg
(c) 50 mg (d) 1 mg

(xix) What type of dosage form is the best choice for young children and elders?

- (a) Solid (b) Liquid
(c) Semisolid (d) None of these

(xx) Which one of the following is an example of thickening agent?

- (a) Gum Acacia (b) Benzoic acid
(c) Bentonite (d) None of these

2. Answer any *seven* questions : (7 × 5 = 35)

- (a) Define drug and additives. Write the importance of additives in dosage forms. (1 + 1 + 3 = 5)
- (b) Explain about geometric dilution in mixing powders. (5)
- (c) Give an account of chemical incompatibilities in prescriptions. (5)
- (d) Enumerate the qualities of an ideal ointment base. (5)
- (e) Write the advantages and disadvantages of theobroma oil as suppository base. (5)
- (f) Discuss in brief about various tests for identifying the type of an emulsion. (5)
- (g) Define a suspension. Distinguish between Flocculated and Deflocculated suspension. (1 + 4 = 5)

(h) Calculate the dose of a medicament for a child weighing 60 pounds if the dose is stated as 3 mg/kg body weight. (5)

(i) Explain the following terms : (2.5 × 2 = 5)

(i) Idiosyncrasy.

(ii) Tachyphylaxis.

3. Answer any *two* questions : (2 × 10 = 20)

(a) Write in details about the importance of dosage forms.

(b) Define Powders. Mention about their advantages and disadvantages. Write a note on Effervescent granules. (1 + 5 + 4 = 10)

(c) Discuss different techniques for solubility enhancement. (10)