

Question Paper

Exam Date & Time: 25-Nov-2023 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Pharmaceutics-I [PCE-BP103T - S3]

Marks: 75

Duration: 180 mins.

I Multiple Choice Questions (MCQs)

Answer all the questions.

Section Duration: 30 mins

1) This person is known as Father of Botany (1)

- [Hippocrates](#)
- [Theophrastus](#)
- [Galen](#)
- [Paracelsus](#)

2) Bengal Chemical and Pharmaceutical Works was established in (1)

- [1801](#)
- [1810](#)
- [1901](#)
- [1910](#)

3) The famous book written by Dioscorides is (1)

- [National Formulary](#)
- [De materia medica](#)
- [The Canon of Medicine](#)
- [Drug Compendia](#)

4) Following dosage form exhibit higher stability (1)

- [Powders](#)
- [Suspensions](#)
- [Capsules](#)
- [Solutions](#)

5) Following is NOT TRUE for nasal preparations (1)

- [Large surface area for drug absorption](#)
- [Highly vascularized nasal tissues allows rapid absorption](#)
- [Anti-microbial preservatives are not added](#)
- [Avoids first pass metabolism](#)

6) All the following liquids are for internal use EXCEPT (1)

- [Syrup](#)
- [Elixir](#)
- [Liniment](#)
- [Aromatic water](#)

7) Aqueous or oily solutions or suspensions intended for introduction into the rectum are (1)

- [Cachets](#)
- [Enemas](#)
- [Draughts](#)
- [Tinctures](#)

8) Sterile polymeric devices containing one or more medicaments for introduction into body tissues are called as (1)

- [Transdermal patches](#)
- [Implants](#)
- [Suppositories](#)
- [Pessaries](#)

9) Following statement is false for flocculated suspension (1)

- [Particles exhibit loose aggregates.](#)
- [Form closely packed sediment, difficult to redisperse](#)
- [High rate of sedimentation](#)
- [Stick to the sides of the bottle](#)

10) The total volume of a suspension is 20 mL. It has formed a sediment of volume 9 mL. What is the sedimentation volume of the suspension? (1)

- [2.22](#)
- [0.45](#)
- [4.5](#)
- [—](#)
- [0.22](#)

11) Which of the following is a unit of fluid measure? (1)

- [grain](#)
- [minim](#)
- [gram](#)
- [scruple](#)

12) The adult dose of a drug is 1000 mg. As per Young's formula, what is the dose of this drug for a child of 6 years of age? (1)

- [333.3 mg](#)
- [33.3 mg](#)
- [666.6 mg](#)
- [66.6](#)
- [mg](#)

13) 100 ppm is _____ (1)

- [0.0001%](#)
- [0.001%](#)
- [0.01%](#)
- [—](#)
- [0.1%](#)

14) Select the proportion in which 70% alcohol and 20% alcohol are to be mixed to obtain 50% alcohol (1)

- [2:3](#)
- [3:2](#)
- [1:4](#)
- [4:1](#)

15) Ten grams equal _____ grains (1)

- [77.16](#)
- [15.43](#)
- [154.32](#)
- [—](#)
- [38.58](#)

16) Convert 100 scruples to drams (1)

- [33.33](#)
- [13.33](#)
- [9.12](#)
- [—](#)
- [1.29](#)

17) How many g of paracetamol are required to prepare 10 L of 5% w/v paracetamol hydroalcoholic solution? The concentration of alcohol is 40% v/v (1)

- [0.5](#)
- [5](#)
- [50](#)
- [500](#)

18) 59.7% v/v alcohol is considered _____ (1)

- [Above proof](#)
- [Below proof](#)
- [100 proof](#)
- [—](#)

[None of the above](#)

- 19) 100 mL of a solution contains 10 g of dextrose. What is the concentration of dextrose in the solution? (1)

[10% w/w](#)
[1% w/w](#)
[10% w/v](#)
[1% w/v](#)

- 20) If the adult dose is 30 mg and the weight of the child is 14 kg, the dose for the child will be _____ as per Clark's formula (1)

[6 mg](#)
[24 mg](#)
[36 mg](#)
[48 mg](#)

II Long Answers

Answer all the questions.

- 1) Describe the classes of ointment bases (10)
- 2) Explain therapeutic incompatibility with any five examples. (10)

III Short Answers

Answer all the questions.

- 1) Discuss various parts of prescription. (5)
- 2) Discuss the ingredients added in syrup and explain any two methods of preparation of syrups. (5)
- 3) Write a note on formulation of suspension. Explain any two tests for identification of emulsions. (5)
- 4) Describe five factors in dose selection. (5)
- 5) Describe vehicles in liquid dosage forms. (5)
- 6) Enlist the advantages of liquid dosage forms over powders (5)
- 7) Describe polymorphism in cocoa butter (5)

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