

# Question Paper

Exam Date & Time: 30-Dec-2023 (10:00 AM - 01:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

Pharmaceutics-I [PCE-BP103T - S2]

Marks: 75

Duration: 180 mins.

### I Multiple Choice Questions (MCQs)

Answer all the questions.

Section Duration: 30 mins

1) Prof. R N Chopra is known as (1)

[Father of Indian Pharmacognosy](#)

[Father of Indian Pharmacology](#)

[Father of Indian Education](#)

[Father of Indian Pharmaceutics](#)

2) The latest edition of Indian Pharmacopoeia was published in the year (1)

[2018](#)

[2020](#)

[2022](#)

[2023](#)

3) The following is an official compendia (1)

[National Formulary](#)

[The United States Dispensary](#)

[Extra Pharmacopoeia](#)

[Merck Index](#)

4) Otic solutions are known as (1)

[Eye drops](#)

[Ear drops](#)

[Nasal drops](#)

[None of the above](#)

5) Following dosage form exhibit higher rate of bioavailability (1)

[Powders](#)

[Suspensions](#)

[Capsules](#)

[Solutions](#)

6) 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](#)

7) Following is the example for non-compressed dosage form (1)

- [Lozenges](#)
- [Cachet](#)
- [Tablet](#)
- [None of the above](#)

8) Sweet, viscous liquid preparations usually containing medical substances which are demulcent, sedative or expectorant properties are (1)

- [Liniments](#)
- [Linctuses](#)
- [Collodions](#)
- [Lotions](#)

9) The total volume of a suspension is 25 mL. It has formed a sediment of volume 7 mL. What is the sedimentation volume of the suspension? (1)

- [0.357](#)
- [0.28](#)
- [-](#)
- [3.57](#)
- [-](#)
- [2.8](#)

10) Cod Liver Oil Emulsion IP is an example for..... (1)

- [Semi-solid emulsion for internal use](#)
- [Semi-solid emulsion for external use](#)
- [Liquid emulsion for internal use](#)
- [Liquid emulsion for external use](#)

11) Which of the following is not a system of measure? (1)

- [Avoirdupois](#)
- [Indian Standards Institution](#)
- [Troy](#)
- [Apothecaries](#)

12) The adult dose of a drug is 2000 mg. As per Young's formula, what is the dose of this drug for a child of 4 years of age? (1)

- [2500 mg](#)
- [500 mg](#)
- [5000 mg](#)
- [10,000 mg](#)

13) 20 ppm is \_\_\_\_\_ % (1)

- [2%](#)
- [0.002%](#)
- [20%](#)
- [0.2%](#)

14) Select the proportion in which 20% alcohol and 70% alcohol are to be mixed to obtain 60% alcohol (1)

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

15) 50 grams equal \_\_\_\_\_ grains (1)

- [771.6](#)
- [15,000](#)
- [20,000](#)
- [30,000](#)

16) Convert 20 scruples to drams (1)

- [6.66](#)
- [1.33](#)
- [9.12](#)
- [1.29](#)

17) How many kg of cyclophosphamide are required to prepare 10 L of 5% w/v cyclophosphamide solution? (1)

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

18) 10% v/v alcohol is considered \_\_\_\_\_ (1)

- [Above proof](#)
- [Below proof](#)
- [100 proof](#)
- [None of the above](#)

19) 100 g of a solution contains 1 g of sucrose. What is the concentration of sucrose in the solution? (1)

- [10%](#)
- [w/w](#)

1% w/w

10% w/v

1% w/v

- 20) If the adult dose is 120 mg and the weight of the child is 14 kg, the dose for the child will be (1)  
\_\_\_\_\_ as per Clark's formula

1200

mg

24 mg

3600

mg

4800

mg

## II Long Answers

Answer all the questions.

- 1) Describe semisolid dosage forms (10)
- 2) Classify incompatibilities with two examples to each. (10)

## III Short Answers

Answer all the questions.

- 1) Explain various parts of prescription. (5)
- 2) Differentiate Syrups and Elixirs. Write a note on gargles (5)
- 3) Compare and contrast flocculated suspension and deflocculated suspension (5)
- 4) Discuss the problems associated with the stability of emulsions. (5)
- 5) Describe suppositories (5)
- 6) What are liquid dosage forms? (5)
- 7) Describe powders (5)

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