

Question Paper

Exam Date & Time: 04-May-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal College of Pharmaceutical Sciences
D.Pharm Part I : University Examination, May 2024

Pharmaceutics [PCE-ER20-11T-S1]

Marks: 80

Duration: 180 mins.

MCQs

Answer all the questions.

Section Duration: 30 mins

20 Q x 1 mark = 20 marks

- 1) The author of 'De materia medica' is _____ (1)
- [Hippocrates](#)
[Dioscorides](#)
[Galen](#)
[Paracelsus](#)
- 2) The containers meant for the storage of injectables are made of (1)
- [Lime soda glass](#)
[Neutral glass](#)
[Type II glass](#)
[Type I and Type II glass](#)
- 3) In purified syrup the concentration of sugar according to IP is (1)
- [67% W/W](#)
[66.7 % W/W](#)
[76 % W/W](#)
[65 % W/W](#)
- 4) Disodium EDTA is an example of (1)
- [Sweetening agent](#)
[Flavouring agent](#)
[Chelating agent](#)
[Preservative](#)
- 5) Which one of the following is not a mechanism of filtration? (1)
- [Entanglement](#)
[Impact](#)
[Impingement](#)
[Straining](#)
- 6) Cochineal is a agent (1)
- [Flavouring agent](#)

[Sweetening agent](#)

[Colouring agent](#)

[Thickening agent](#)

7) Which one of the following dryers is known as lyophiliser? (1)

[Fluidised bed dryer](#)

[Freeze dryer](#)

[Spray dryer](#)

[Vacuum dryer](#)

8) Which organization is responsible for the publication and maintenance of the Indian Pharmacopoeia? (1)

[World Health Organization \(WHO\)](#)

[Indian Medical Association \(IMA\)](#)

[Indian Pharmacopoeia Commission \(IPC\)](#)

[Central Drug Standard Control Organisation \(CDSCO\)](#)

9) Which of the following conveys the longest-lasting immunity to an infectious agent? (1)

[Naturally acquired passive immunity](#)

[Artificially acquired passive immunity](#)

[Naturally acquired active immunity](#)

[All of these](#)

10) Vanishing cream is (1)

[W/O](#)

[O/W](#)

[W/O/W](#)

[None of the above](#)

11) The smallest size of the capsule is denoted by which number (1)

[0](#)

[1](#)

[2](#)

[5](#)

12) Lotions are used as (1)

[Emollients](#)

[Inhalation](#)

[Astringent](#)

[Bactericidal](#)

13) The role of emulsifying agent is _____. (1)

[Decrease surface area in emulsion](#)

[Improves the medication taste](#)

[Increase the size of globules](#)

[Reduce the interfacial tension between miscible phases](#)

14) Which of the following cells is involved in cell-mediated immunity? (1)

[Leukaemia](#)

[T cells](#)

[Mast cells](#)

[Thrombocytes](#)

- 15) _____ is a method of ointment preparation, where the mixture of high and low-melting-point waxes are used (1)

[Levigation](#)

[Fusion](#)

[Mixing](#)

[Chemical](#)

- 16) _____ are semisolid preparations for external application that differ from similar products in containing a high proportion of finely powdered medicaments. (1)

[Ointment](#)

[Paste](#)

[Gel](#)

[Cream](#)

- 17) Chemicals produced by microorganisms can produce fever reactions in patients (1)

[Viruses](#)

[Pathogens](#)

[Pyrogens](#)

[None of the above](#)

- 18) The monophasic liquid dosage form is solutions (1)

[True](#)

[Course](#)

[Fine](#)

[Macro](#)

- 19) The term 'c' in cGMP is _____ (1)

[Current](#)

[Commitment](#)

[Content](#)

[Correct](#)

- 20) TQM stands for (1)

[The Quality Stability Management](#)

[Total Quality Control](#)

[Management](#)

[Total Quality Management](#)

[Total Quality Masters](#)

Long Answers

Answer all the questions.

6 Q x 5 marks = 30 marks

- 1) Enlist the excipients used in pharmaceutical tablet formulations. Describe the function of binders, disintegrates and lubricants with examples (5)
- 2) Write the principle and diagram of the ball mill with the applications (5)
- 3) Define liniments with examples. write the differences between lotions and liniments (5)
- 4) Define and explain the types of preservatives along with examples (5)
- 5) Explain the factors affecting the theory of filtration (5)

6) Write the quality control tests for parenteral (5)

Short Answers

Answer all the questions.

10 Q x 3 mark = 30 marks

- 1) Write a note on gargles and mouthwashes with examples (3)
- 2) What are suspending agents, write two examples (3)
- 3) Define eutectic mixture with an example (3)
- 4) Write a note on elixirs (3)
- 5) Write the parameters that influence the rate of the drying process (3)
- 6) Enlist common tablet manufacturing defects (3)
- 7) Define calibration and validation (3)
- 8) Write the salient features of Indian Pharmacopoeia 2018 (3)
- 9) What are vaccines, write its applications (3)
- 10) Write the difference between vanishing cream and cold cream (3)

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