

Question Paper

Exam Date & Time: 13-May-2023 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

D.Pharm Part I: University Examination, May 2023

Pharmaceutics [PCE-ER20-11T-S3]

Marks: 80

Duration: 180 mins.

MCQs

Answer all the questions.

Section Duration: 30 mins

20 Q x 1 mark = 20 marks

- 1) Indian Pharmacopoeia second edition was published under the chairmanship of (1)
- [Dr. B Mukherji](#)
[Dr. Nitya Nand](#)
[Mr. Naresh Dayal](#)
[Ms. K Sujatha Rao](#)
- 2) What does "Pharmakon" mean (1)
- [Drug](#)
[To make](#)
[To present](#)
[To give](#)
- 3) The package composed of a base layer having cavities that hold the pharmaceutical product and a lid is called (1)
- [Strip package](#)
[Child resistant package](#)
[Blister package](#)
[Well closed package](#)
- 4) Which of the following materials are used in pharmaceutical packaging (1)
- [Glass](#)
[Plastic](#)
[Metal](#)
[All of the these](#)
- 5) Soda ash is also known as (1)
- [Pure silica](#)
[Sodium carbonate](#)
[Lime stone](#)
[Calcium carbonate](#)
- 6) _____ is Artificial Preservatives. (1)

[Neem Oil](#)
[Sodium Chloride](#)
[Honey](#)
[Benzoates](#)

7) Which of the following is a synthetic sweetener (1)

[Glucose](#)
[Sucrose](#)
[Sorbitol](#)
[Aspartame](#)

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

[Fluidised bed
dryer](#)
[Freeze dryer](#)
[Spray dryer](#)
[Vacuum dryer](#)

9) Size separation is NOT based on one of the following properties (1)

[Particle density](#)
[Particle shape](#)
[Particle size](#)
[Particle texture](#)

10) If the drug dose is inadequate, which component is used to make up its bulk (1)

[Diluent](#)
[Binder](#)
[Disintegrant](#)
[Lubricant](#)

11) Which is the correct order of sugar coating process (1)

[Sealing-smoothing-polishing-subcoating-colouring](#)
[Sealing-subcoating-smoothing-colouring-polishing](#)
[Subcoating-smoothing-colouring-polishing-sealing](#)
[Subcoating-sealing-polishing-colouring-smoothing](#)

12) Empty gelatine capsule shell can be made from (1)

[Gelatin](#)
[HPMC](#)
[Carrageenan](#)
[All of the
these](#)

13) Syrup consist which sugar? (1)

[Sucrose](#)
[Fructose](#)
[Maltose](#)
[Glucose](#)

14) Syrup consists of sucrose in concentration (1)

[76.6%](#)
[66.7%](#)

- 67.6%
- 76.7%
- 15) Vanishing cream is (1)
- W/O
- O/W
- W/O/O
- All of these
- 16) Suppository base should _____ at body temperature (1)
- Soften
- Melt
- Dissolve
- All of these
- 17) Powders for external use can be classified as (1)
- Dusting powders
- Insufflations
- Douche powder
- All of these
- 18) A high efficiency air filter means (1)
- HEPA filter
- Diluent
- Final filter
- Web filter
- 19) Which of the following cells is involved in cell-mediated immunity (1)
- Leukaemia
- T cells
- Mast cells
- Thrombocytes
- 20) TQM stands for (1)
- Total Quality Stability Management
- Total Quality Control Management
- Total Quality Management
- Total Quality Assurance Management

Long Answers

Answer all the questions.

6 Q x 5 marks = 30 marks

- 1) Classify tablets. Write the significance of coated tablets with examples. (5)
- 2) Define syrup, and write the principle of simple syrup. (5)
- 3) Define lotions. write the difference between liniments and lotions with examples. (5)
- 4) Write a note on evaluation tests for parenteral preparations. (5)
- 5) Explain the salient features of the latest addition of Indian pharmacopeia. (5)

- 6) Explain the general principles of size reduction. (5)

Short Answers

Answer all the questions.

10 Q x 3 mark = 30 marks

- 1) What are the advantages of rubber in pharmaceutical packaging? (3)
- 2) Write a note on the history of profession of pharmacy in India in relation to pharmaceutical industry. (3)
- 3) Write the importance of preservatives in pharmaceutical dosage forms with suitable examples. (3)
- 4) Define dusting powder and write the principles of dusting powder. (3)
- 5) Define and classify the extraction process. (3)
- 6) What are effervescent powders and write its applications? (3)
- 7) Write the labeling requirement for ear drops. (3)
- 8) Define gel and write the bases used for gel. (3)
- 9) Classify the types of vaccines with examples. (3)
- 10) Write the importance of QC and QA in the pharmaceutical industry. (3)

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