

Exam Date & Time: 01-Jan-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Industrial Pharmacy I [PCE-BP502T - S2]

Marks: 75

Duration: 180 mins.

I Multiple Choice Questions (MCQs)

Answer all the questions.

Section Duration: 30 mins

1) Volume of injection (0.5 to 2 mL) should be given by _____ route

1) Intravenous	2) Subcutaneous	3) Intramuscular	4) Intradermal	(1)
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2) As per GMP, Water for injection (WFI) should be stored at _____ °C

1) 100	2) 90	3) 70	4) 80	(1)
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3) _____ gas is commonly used in injections to avoid product degradation.

1) Hydrogen	2) Helium	3) Nitrogen	4) Oxygen	(1)
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4) FDA licensed parenteral products are mostly in the range of _____ pH

1) 5 to 7	2) 3 to 9	3) 4 to 8	4) 7 to 10	(1)
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5) Sterilization for thermolabile products is carried out by _____ process. (1)

1) Gamma radiation	2) Gaseous	3) Filtration	4)
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13) In which step of sugar coating rounding of edges takes place? (1)

1) Sealing	2) Syruping	3) Sub coating	4) Polishing
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14) Buccal tablets are prepared for drugs that:

1) Get decomposed in gastric environment	2) Produce nausea on swallowing	3) Undergo first pass metabolism	4) All of the above
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15) Di basic Calcium Phosphate is

1) Organic diluent	2) Inorganic diluent	3) Organic binder	4) Inorganic binder
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16) Which of the following is not a component of coating formulation

1) Polymer	2) Solvent	3) Plasticizer	4) Lubricant
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17) Friability test is done for

1) 25 rotations	2) 50 rotations	3) 75 rotations	4) 100 rotations
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18) Which of the following tests are not carried out for Capsules

1) Disintegration	2) Dissolution	3) Weight variation	4) Friability
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19) Bloom strength, A measure of cohesive strength of gelatin ideally for capsule should be.

1) 150-280	2) 100-200	3) 80-120	4) 120-150
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20) Which one is a semi automatic method of capsule filling?

1) Auger fill method	2) Mechanical vibration fill method	3) Dosator method	4) Compression filling method
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II Long Answers

Answer all the questions.

1) (10)

Define ophthalmic dosage forms. Discuss various factors affecting corneal absorption. List four criteria to choose preservatives in ophthalmic preparations with examples.

- 2) Describe the various parts of an aerosol valve system. Write a note on stability studies of Pharmaceutical Aerosols (10)

III Short Answers

Answer all the questions.

- 1) Discuss any five functions of Dentifrices (5)
- 2) Briefly discuss tertiary packaging materials mentioning its significance. (5)
- 3) Briefly explain the importance of powder flow in hoppers during preformulation studies. (5)
- 4) List the components of SGC shell. Discuss the parts of rotary die filling machine of SGC (5)
- 5) Describe the process of selecting the capsule size for a formulation to be filled in hard gelatin capsule (5)
- 6) Explain how disintegration test is carried out for Enteric coated tablets and mention the limits to pass disintegration test for uncoated, film coated and enteric coated tablets. (5)
- 7) Discuss the coating pan and spray parameters to be considered during film coating of tablets (5)

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