

Question Paper

Exam Date & Time: 12-Jan-2021 (09:30 AM - 12:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Industrial Pharmacy I [PCE-BP502T]

Marks: 75

Duration: 180 mins.

I Multiple Choice Questions (MCQs)

Answer all the questions.

Section Duration: 30 mins

- 1) One among the following is a classical pseudomorph. (1)
a) Crystalline b) Crystal shape
c) Hydrates d) Amorphous

a
b
c
d

- 2) During product development, powder flow is related to one of the following. (1)
a) Flow of powders in hoppers b) Particle size
c) Bulkiness d) Angle of repose

a
b
c
d

- 3) During preformulation studies, Solubility should be studied at _____ °C. (1)
a) 25.1 b) 4 and 37
c) 37.5 d) 4 to 6

a
b
c
d

- 4) Drugs belonging to Ester category readily undergoes _____. (1)
a) Oxidation - Reduction b) Hydrolysis
c) Polymerization d) Reduction

a
b
c
d

- 5) "Difficult to reverse physiologic effect" is a problem of: (1)
a) Injections b) Capsules
c) Uncoated tablets d) Solutions

a
b
c
d

- 6) Standard pH range of water for injection (WFI) in steriles is _____. (1)
a) 5.5 to 7.5 b) 5 to 7
c) 6 to 7 d) 7 to 8

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Sealing B) Syruping C) Sub coating D)Polishing

- A.
- B.
- C
- D

- 15) A tablet defect related to poor flow (1)
A) Capping B) Sticking C)Weight variation D)Lamination

- A
- B
- C
- D

- 16) Enteric coated tablets are initially tested for disintegration in (1)
A) simulated gastric fluid B) simulated intestinal fluid C) Purified water D) Phosphate buffer

- A
- B
- C
- D

- 17) A coating defect due to inadequate spreading of coating solution (1)
A) Orange peel effect B) Roughness C) Blistering D) Sticking

- A
- B
- C
- D

- 18) Select the right sequence in manufacturing of Hard Gelatin Capsules (1)
A) Dipping-Spinning-Drying- Stripping-Trimming-joining-Polishing
B) Dipping- -Drying- Spinning Stripping-Trimming-joining-Polishing
C) Dipping- -Drying- Stripping- Spinning Trimming-joining-Polishing
D) Dipping-Spinning- - Stripping- Drying -Trimming-joining-Polishing

- A
- B
- C
- D

- 19) Pelletization technique preferred for high drug loading (1)
A)Powder layering B) Solution layering C) Suspension layering D) Extrusion and Spheronisation

- A
- B
- C
- D

- 20) Which of the following test is not applicable for capsules (1)
A. Weight variation B. Disintegration C. Dissolution D. Friability

- A
- B
- C
- D

II Long Answers

Answer all the questions.

- 1) Write the advantages and disadvantages (in tabular form) of the various tablet formulation techniques. Discuss the parameters affecting tablet coating (5+5) (10)
- 2) Write about the ingredients used in the formulation of Hard Gelatin Capsules.. Briefly describe the steps in the semi-automatic filling of Hard Gelatin Capsules (5+5) (10)

III Short Answers

Answer all the questions.