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BP 502 T

2024

B.Pharm. 5th Semester End-Term Examination

INDUSTRIAL PHARMACY — I

Full Marks – 75

Time – Three hours

The figures in the margin indicate full marks for the questions.

1. Answer the following (Multiple Choice Questions) : 1 × 20
- (i) Adhesion of tablet material to die wall is called
- (a) Capping (b) Sticking
- (c) Mottling (d) Picking
- (ii) _____ is also known as hermetic container.
- (a) Multi-dose Container (b) Air-tight Container
- (c) Well-closed Container (d) Aerosol Container
- (iii) Powder flow properties are characterized by
- (a) Angle of repose (b) Carr's index
- (c) Hausner ratio (d) All of the above
- (iv) Which of the following is not used as diluents?
- (a) Lactose (b) Microcrystalline cellulose
- (c) Calcium Carbonate (d) Poly Vinyl Pyrrolidone
- (v) According to IP, the limit of wt. variation for tablet having avg. wt. more than 250 mg is
- (a) 5% (b) 7%
- (c) 10% (d) 15%
- (vi) Polyvinylchloride is an example of _____.
- (a) Thermoplastic (b) Elastomer
- (c) Thermosetting (d) None

[Turn over

- (vii) _____ clear, sweetened hydro alcoholic solution.
- (a) Draught (b) Drops
(c) Linctuses (d) Elixirs
- (viii) Which animal is used in pyrogen test?
- (a) Rat (b) Rabbit
(c) Mice (d) None of the above
- (ix) _____ is used to increase the viscosity of eye drops.
- (a) Buffer (b) Thickening agent
(c) Preservatives (d) Antioxidant
- (x) Glycerin acts as _____ in vanishing cream.
- (a) Humectant (b) Buffer
(c) Antioxidant (d) Preservatives
- (xi) The bloom strength of gelatin gel should be in range of
- (a) 150-250 g (b) 400-500 g
(c) 50-100 g (d) 300-400 g
- (xii) Which of the following propellant used for topical pharmaceutical aerosols?
- (a) Propane (b) Dichloro tetra fluoro methane
(c) Dichloro tetra fluoro ethane (d) All of the above
- (xiii) Which gas is used in Cryopelletization?
- (a) Oxygen (b) Nitrogen
(c) Hydrogen (d) None of these
- (xiv) Most common disadvantage of ophthalmic ointments and gels is
- (a) Blurring of vision (b) Drug stability
(c) Drug choice flexibility (d) All of the above
- (xv) Which of the following is not an evaluation parameter of capsule?
- (a) Floating time (b) Disintegration
(c) Dissolution (d) Weight variation
- (xvi) Which type of surfactant is commonly used in baby shampoos?
- (a) Non-ionic surfactant (b) Anionic surfactant
(c) Cationic surfactant (d) Amphoteric surfactant

(xvii) According to BCS classification, the drugs having low solubility and high permeability are classified in

- (a) Class I
- (b) Class II
- (c) Class III
- (d) Class IV

(xviii) _____ is a defect in which film of a tablet become dull or hazed after a prolonged period of storage.

- (a) Orange peel
- (b) Lamination
- (c) Blooming
- (d) Capping

(xix) Which of the following is most effective Sunscreen?

- (a) PABA
- (b) Titanium dioxide
- (c) Ferric oxide
- (d) Methyl Salicylate

(xx) No disintegrant is required in the composition of which type of tablet?

- (a) Enteric coated tablet
- (b) Chewable tablet
- (c) Inlay tablet
- (d) Compressed tablet

2. Short answers. (Answer any seven)

7 × 5

(a) Discuss about wet granulation technique and add few points of its advantages. 5

(b) Write briefly on Biopharmaceutical classification system drug with example. 5

(c) What do you mean by enantiotropic? Write the difference between crystalline and amorphous solid? 1 + 4

(d) Explain the quality control test of parenteral preparation. 5

(e) What do you mean by ophthalmic preparation? What are the ideal requirements of ophthalmic preparation? 1 + 4

(f) Write the difference between hard gelatin capsule and soft gelatin capsule. List out the advantages of soft gelatin capsule. 3 + 2

(g) Write a short note on shampoo. 5

(h) Explain on evaluation parameter of liquid oral dosage form. 5

(i) Write a note on palletization process. 5

3. Long Answers (Answer any *two*)

2 × 10

- (a) Explain the quality control test of tablet. Discuss the defects associated with tablet manufacturing. 5 + 5
 - (b) Define preformulation. Write the objectives of preformulation study. Discuss the physicochemical parameter of preformulation study. 1 + 3 + 6
 - (c) What is pharmaceutical packaging and classify it. Explain the quality control test of pharmaceutical packaging material. 3 + 7
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