

1. Multiple choice questions :

- (i) The ability of a substance to exist as two or more crystalline phases with different arrangements of molecules in crystal lattice is :
 - (a) Cocrystal
 - (b) Crystal
 - (c) Polymorphism
 - (d) None of the above
- (ii) The relationship between pH, solubility and pKa value of an acidic drug is given by :
 - (a) Henderson Hasselbalch equation
 - (b) Bragg's equation
 - (c) Noye's Whitney equation
 - (d) None of the above
- (iii) Lipophilicity of drug is usually described in terms of :
 - (a) Crystalline
 - (b) Solubility
 - (c) pKa
 - (d) Partition coefficient

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B. Pharmacy. (Fifth Semester)
Examination, Nov.-Dec. 2019

(PCI Scheme)

(Pharmacy Branch)

FORMULATIVE PHARMACY

Paper : (BP502T)

(Theory)

Time Allowed : Three hours

Maximum Marks : 75

Note : Question paper has three parts that is (a), (b) and (c). Part (a) has 20 MCQ's, each of 1 marks. All questions in Part (a) are compulsory. Part (b) is long answer type questions. It contains 3 questions of which, attempts any two questions. Each questions carries 10 marks. Part (c) is short answer type questions. It contains 9 questions, of which attempt any seven questions. Each question 5 marks.

Part-'A'

20x1=20

Note : Attempt all questions. Each question carries 1 mark.

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- (iv) Carr's index is related to :
 - (a) Flow properly
 - (b) Solubility
 - (c) Partition coefficient
 - (d) All of the above

- (v) The IPQC problem in tablet lamination is related to : <http://www.csvtuonline.com>
 - (a) Separation of a tablet into two or more distinct layers.
 - (b) Partial and complete separation of the top and bottom crowns of a tablet from the main body of the tablet.
 - (c) Process of sub-coating of tablets
 - (d) None of the above

- (vi) In sugar coating of tablets sealcoat is done :
 - (a) To prevent moisture deposition
 - (b) To round the edge and build tablet size
 - (c) To smoothen the surface
 - (d) To prevent the tablet from breaking due to vibration

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- (vii) Inadequate spreading of the coating solution before drying a bumping effect which is known as :
 - (a) Mottling
 - (b) Roughness
 - (c) Hazing orange peel effect
 - (d) Cracking

- (viii) Wetting ability of vehicle is determine by :
 - (a) Angle of repose
 - (b) Contact angle
 - (c) Critical angle
 - (d) None of the above

- (ix) Rotosort is a machine used to sort out :
 - (a) Coated tablets
 - (b) Filled Capsules
 - (c) Scaled ampoules
 - (d) Scaled containers

- (x) Chemical nature of gelatin is a :
 - (a) Fat

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- (c) Carbohydrate
- (d) None of the above
- (xi) Bloom strength test is used for :
 - (a) Powder
 - (b) Emulsion
 - (c) Suspension
 - (d) Gelatin solution
- (xii) The following substance cannot be used as filling material in soft gelatin capsule :
 - (a) Hygroscopic and volatile material
 - (b) Aldehydes
 - (c) Acidic and alkaline
 - (d) All of the above
- (xiii) The water miscible solvent which are solvent for parenteral is :
 - (a) Alcohol
 - (b) Acetone
 - (c) Dimethyl acetamide
 - (d) None of the above

- (xiv) Fever response in rabbit is test for parenteral product is :
 - (a) Agglutination test
 - (b) Pyrogen test
 - (c) Inflammation test
 - (d) Anti fungal test
- (xv) According to USP water for injection is prepared by :
 - (a) Evaporation
 - (b) Filtration
 - (c) Reverse osmosis
 - (d) None of the above
- (xvi) The full name of HEPA filter is :
 - (a) High-efficiency particulate air filter
 - (b) High-efficiency pressure air filter
 - (c) Heat-efficiency pressure air filter
 - (d) Heat-effective particulate air filter
- (xvii) The following gas is used as propellant for aerosol :
 - (a) Oxygen

- (b) Methane
- (c) Propane
- (d) Carbon dioxide

(xviii) The quality control test for aerosol include :

- (a) Sedimentation ratio
- (b) Creaming test
- (c) Flash point
- (d) Hausner's ratio

(xix) The abrasive substance used in tooth powder is :

- (a) Dicalcium phosphate dihydrate
- (b) Zinc carbonate
- (c) Calamine
- (d) Zinc oxide

(xx) Water attack test is performed for :

- (a) Glass container
- (b) Rubber closer
- (c) Plastic container
- (d) None of the above

Note : Attempt any two questions. Each question carries 10 marks.

2. What is preformulation study. Explain various physical properties of drug that affect design of dosage form.
3. Explain methods of granulation for preparation of tablet. Describe finished product quality control test for tablet.
4. Discuss BCS classification of drug. Write in brief about formulation consideration of oral solution.

Note : Attempt any seven questions. Each question carries 5 marks.

5. Discuss production of hard gelatin capsule shell.
6. Write short notes on base absorption and minim gram factors for soft gelating capsule.
7. Discuss quality control test for hard gelating capsule.
8. Describe types of vehicle used for parenteral product.

9. Write short note on various method of sterilization used for parenterals.
10. Discuss formulation of eye drop.
11. Explain formulation of cold cream.
12. Discuss method of filling of aerosol.
13. Describe various factors influencing choice of container.

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