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Roll No. :

341552(41)

**B. Pharmacy (Fifth Semester) Examination,
April-May 2021**

(PCI Scheme)

(Pharmacy Branch)

FORMULATIVE PHARMACY

(Theory) (BP502T)

Time Allowed : Three hours

Maximum Marks : 75

Note : Questions paper has three parts (A, B & C).
Part-A has 20 MCQs each of 1 mark. All the
questions in Part-A are compulsory $1 \times 20 = 20$
marks.

Part-B has three questions, out of which
attempt any **two** questions. Each question
carries 10 marks. ($2 \times 10 = 20$)

Part-C has nine questions, out of which
attempt any **seven** questions. Each question
carries 5 marks. ($7 \times 5 = 35$)

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Part-A

(Multiple Choice Questions) 20×1=20

Note : Answer all the questions from MCQs. Each question carries 1 mark.

1. Choose the correct options :

- (i) Sugartab is a :
- Diluent
 - Binder
 - Lubricant
 - Glidant
- (ii) Following is an artificial sweetner :
- Mannitol
 - Sorbitol
 - Aspartame
 - None
- (iii) Pfizer Tester is used for testing :
- Hardness

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- Friability
 - Disintegration
 - None
- (iv) Following is an isotonic solution :
- 0.9% w/v sodium chloride solution
 - 5% w/v dextrose solution
 - 0.45% w/v sodium chloride and 2.5% w/v dextrose solution
 - All of the above
- (v) Unequal distribution of color in tablets is called :
- Picking
 - Sticking
 - Mottling
 - None of the above
- (vi) Following could be used as a propellant in aerosols :
- Fluorinated hydrocarbons
 - Compressed gases

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- (c) Liquified gases
- (d) All of the above
- (vii) Rotoweigh is :
- (a) Tablet weighing machine
- (b) Capsule weighing machine
- (c) Powder weighing machine
- (d) None of the above
- (viii) In hard gelatin capsule ratio of dry glycerin/gelatin for hard shell is :
- (a) 0.4 / 1.0
- (b) 0.6 / 1.0
- (c) 0.8 / 1.0
- (d) None of the above
- (ix) Following polymer is used for the enteric coating of tablets :
- (a) Hydroxy propyl methyl phthalate
- (b) Hydroxy propyl methyl cellulose
- (c) Hydroxy propyl cellulose
- (d) Hydroxy propyl ethyl cellulose

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- (x) Accogel is used to fill :
- (a) Liquid into soft gelatin capsules
- (b) Powdered dry solids into soft gelatin capsules.
- (c) Both
- (d) None
- (xi) The preservative used for ophthalmics :
- (a) Benzalkonium chloride
- (b) Phenyl mercuric acetate
- (c) Thiomersal
- (d) All of the above
- (xii) Opalux is used as :
- (a) Opaquant color concentrate for sugar coating.
- (b) Complete film coating
- (c) Opaquant color concentrate for film coating.
- (d) None of the above

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- (xiii) In I.P 2018 the pyrogen test has been replaced with :
- (a) Bacterial Endotoxin Test
 - (b) Bacterial Exotoxin Test
 - (c) LAL Test
 - (d) None
- (xiv) Freeze dried products are prepared on the basis of following principle :
- (a) Condensation
 - (b) Fusion
 - (c) Sublimation
 - (d) Evaporation
- (xv) Sedimentation is based on :
- (a) Fick's law
 - (b) Stoke's law
 - (c) Noyes Whitney equation
 - (d) Lambert's law

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- (xvi) Example of anionic surfactants used as emulsifying agent :
- (a) Sulphuric acid esters
 - (b) Alkoxy alkyl amines
 - (c) Ammonium phosphates
 - (d) Poly oxy ethers
- (xvii) The Oil : Gum : Water ratio for primary emulsion of fixed oil is :
- (a) 4 : 1 : 2
 - (b) 1 : 1 : 2
 - (c) 2 : 1 : 2
 - (d) None
- (xviii) Bancroft's rule is related to :
- (a) Emulsions
 - (b) Suspension
 - (c) Solutions
 - (d) Tablets

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(xix) BCS classification of drugs is based on :

- (a) Solubility
- (b) Permeability
- (c) Both (a) and (b)
- (d) None

(xx) High HLB value shows :

- (a) High hydrophilicity
- (b) Low hydrophilicity
- (c) High lipophilicity
- (d) None of the above

Part-B

(Long Answer Type Questions) 2×10=20

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

2. Discuss formulation consideration of parenteral products along with the Quality Control Parameters.

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3. Write about aerosol systems and components of aerosols.
4. Give in process and finished product quality control tests of tablets.

Part-C

(Short Answer Type Questions) 7×5=35

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

5. Discuss physical properties of preformulation studies.
6. Discuss Sugar coating of tablets.
7. Explain various additives used in ophthalmic preparation.
8. Explain pelletization process.
9. Explain evaluation of cold cream.
10. Discuss factors influencing the choice of containers.

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11. Define Sterilization and discuss any one type of method of sterilization.
12. Explain production of hard gelatin capsules.
13. What are biphasic liquid dosage forms discuss various types of emulsions.

(Short Answer Type Questions) 3x2=6

4. Discuss physical properties of pharmaceutical solids.
5. Discuss sugar coating of tablets.
6. Explain various additives used in ophthalmic preparation.
7. Explain pelletization process.
8. Explain evaluation of cold cream.
9. Discuss factors influencing the choice of container.