





## BRAINWARE UNIVERSITY

Term End Examination 2023-2024

Programme – D.Pharm-2022/D.Pharm-2023

Course Name – Pharmaceutics - Theory

Course Code - ER20-11T

( Year I )

Full Marks: 80

Time: 3:0 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

## Group-A

(Multiple Choice Type Question)

1 x 20=20

- 1. Choose the correct alternative from the following:
  - (i) Which of the following substance is used as a surfactant?
    - a) Calcium carbonate

b) Sodium saccharin

c) Sodium lauryl sulfate

- d) Magnesium stearate
- (ii) Which tablets are placed under the skin?
  - a) Electric-coated tablets

b) Effervescent tablets

c) Implants

- d) Lozenges
- (iii) Which is the suitable mill for size reduction of Rauwolfia?
  - a) Roller mill

b) Ball mill

c) Cutter mill

- d) Colloid mill
- (iv) What is the term used to describe the passage of gases, vapours, and liquids through a plastic packaging system?
  - a) Permeation

b) Leaching

c) Sorption

- d) Alteration
- (v) Where valve and actuator is used?
  - a) Liquid dosage form

b) Semisolid dosage form

c) Aerosols

- d) Solid dosage form
- (vi) "Impact" is the mechanism of size reduction for which of the following mill?
  - a) Roller mill

b) Cutter mill

c) Hammer mill

- d) Fluid energy mill
- (vii) In which case amber colour mainly gives protection?
  - a) Oxidation

b) Reduction

c) Hydrolysis

d) Photo-degradation

(viii) What is the term used to describe through the container wall?	ribe the removal of components from a formula	ation
a) Scrption c) Chemical reaction	b) Description d) Leaching	
(ix) Determine air-tight sealed con a) Tablets c) Capsules (x) Describe the category of boros	b) Injectables d) Ointment	
a) Inferior in nature c) Type I glass (xi) Predict according to IP very fin	b) Soft in nature d) Inferior in appearance ne powder is.	
a) All particles pass through 120     c) All particles pass through 350 (xii) Which one of the following is	0 # sieve d) 90% particles are of size	THE COURSE OF TH
a) Iron     c) Copper (xiii) Which of the following is not a	b) Silver d) Magnesium dioxide a mixing mechanism?	
a) Diffusion     c) Conduction (xiv) Identify the correct answer: In menstruum for 15 minutes?	b) Shear d) Convection n which of the following process, drug is kept wi	ith
a) Maceration     c) Digestion     (xv) Identify the correct answer: W	b) Infusion d) Percolation Which of the following is not a mechanism of filt	ration?
a) Sieving or screening     c) Electrostatic attraction (xvi) Identify the number of tablets	b) Entrapment or impaction d) Compaction s needed for friability test.	1 (brory
a) 5 c) 20 (xvii) Indicate the correct option: Va	b) 10 d) None of these acuum dryer is a modified form of-	varmaces acoustes through the control of the contro
a) Vacuum still c) Evaporation (xviii) Select the equilibrium moistur	b) Simple distillation d) Sublimation	
a) High c) Variable (xix) Select the correct answer: The in-	b) One d) Zero e third edition of the pharmacopoeia of India w	as published
a) 1966 c) 1996 (xx) Select the correct answer: The	b) 1985 d) 1975 e implants are useful in -	
<ul><li>a) Hormone therapy</li><li>c) Inhalation</li></ul>	<ul><li>b) Delivering erythrocytes</li><li>d) Nebulization</li></ul>	
	Group-B (Short Answer Type Questions)	3 x 10=30

(3)

2. Recall various characteristics in pharmaceutical manufacturing plant.

3. Define Tablets and list the classification based on route of administration.	(3)
4. Define the terms Quality Assurance and Quality Control	(3)
5. Write advantages and disadvantages of injectable products.	(3)
6. Explain Process of forming glass containers.	(3)
7. Explain synthetic coloring agent.	(3)
8. Describe syrup and classify them with examples.	(3)
9. Describe Darcy's Equation.	(3)
10. Describe the composition of glass.	(3)
11. Classify injectable products with examples.	(3)
OR	
Define ointments and classify them with suitable examples.	(3)
Group-C	
(Long Answer Type Questions)	5 x 6=30
12. Define GMP with it's significance.	(5)
13. Explain advantages and disadvantages of eye drops.	(5)
14. Describe principle, working and applications of fluid bed dryer.	(5)
15. Define the terms maceration, percolation, decoction, infusion, digestion.	(5)
16. Explain and classify preservatives based on mechanism of action.	(5)
17. Explain rubber and it's ideal properties.	(5)
OR	\$1.5h
Explain components of Packaging.	(5)
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