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Pharmaceutical Technology
Brainware University
Barasat, Kolkata - 700 25

BRAINWARE UNIVERSITY

Term End Examination 2024-2025

Programme – B.Pharm-2020/B.Pharm-2021/B.Pharm-2022

Course Name – Industrial Pharmacy I

Course Code - BP502T

(Semester V)

Full Marks : 75

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) Select the correct answer, Green bones are used for the preparation of
 - a) Type A Gelatin
 - b) Type B Gelatin
 - c) Type C Gelatin
 - d) Type D Gelatin
- (ii) Select the appropriate dry glycerine/ dry gelatin ratio for hard capsule shell.
 - a) 0.6/1
 - b) 0.3/1
 - c) 0.4/1
 - d) 0.8/1
- (iii) Select the range of moisture content of the empty gelatin capsule shell.
 - a) 13-16%
 - b) 7-10%
 - c) 5-25%
 - d) 3-8%
- (iv) Select the correct answer, Drying of soft shell capsule is done by
 - a) Tumble drying
 - b) Fluid bed drying
 - c) Vacuum drying
 - d) Microwave drying
- (v) Select the smallest size of capsules.
 - a) 0
 - b) 1
 - c) 2
 - d) 5
- (vi) Select the correct answer, In capsule filling ROTOFIL is used for
 - a) Filling pellets into capsule
 - b) Filling powder into capsule
 - c) Filling liquids into capsule
 - d) Sorting the filled capsule
- (vii) Select the disintegration time of hard gelatin capsule.
 - a) 30mins
 - b) 120mins
 - c) 60 mins
 - d) 180mins
- (viii) Select the Iron content in soft gelatin capsule.

- a) Should be less than 25ppm
b) Should be less than 15ppm
c) Should be less than 20ppm
d) Should be less than 45ppm
- (ix) Identify the disintegration time for sugar coating tablet
a) 30 Mint
b) 60 Mint
c) 90 Mint
d) 120 Mint
- (x) Identify the polyols which is used as humectants in creams.
a) Glycerine
b) Propylene glycol
c) Sorbitol 70%
d) All of these
- (xi) Select the correct statement regarding WFI:
a) Conductivity of WFI should not more than 1micromho
b) Limit of solid content in WFI is 20ppm
c) WFI is not pyrogen free
d) WFI is not prepared by reverse osmosis
- (xii) Select the commonly used preservative in eye drops.
a) Propyl paraben
b) Butylated hydroxyl toluene
c) Phenol
d) Benzalkonium chloride
- (xiii) Select the drug name which is formulated as first pharmaceutical aerosol.
a) Epinephrine
b) Codeine
c) Chlorpromazine
d) Probenecid
- (xiv) Select the reason of "drying" in case of tablet manufacturing process.
a) Coating the tablets
b) Shaping the tablets
c) Removing moisture from granules or tablets
d) Reducing the size of the tablets
- (xv) Choose the following diluent which is commonly used for direct compression
a) Lactose
b) Microcrystalline cellulose
c) Mannitol
d) Croscarmellose sodium
- (xvi) Choose the excipient which is commonly used as a glidant in tablet formulation
a) Microcrystalline cellulose
b) Magnesium stearate
c) Talc
d) Crospovidone
- (xvii) Choose the type of tablet which is designed to be placed under the tongue and dissolve quickly
a) Film-coated tablet
b) Buccal tablet
c) Chewable tablet
d) Effervescent tablet
- (xviii) Write down the method which is used for the preparation of granules in dry granulation
a) Extrusion
b) Fluid bed granulation
c) Slugging
d) Roller compaction
- (xix) Write down the primary function of a tablet sweetener.
a) Improve tablet hardness
b) Provide a sweet taste
c) Facilitate tablet disintegration
d) Enhance tablet color
- (xx) Choose the type of tablet which is designed to be dissolved or dispersed in water before administration.
a) Buccal tablet
b) Chewable tablet
c) Sublingual tablet
d) Effervescent tablet

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Group-B

(Short Answer Type Questions)

5 x 7=35

2. Describe briefly the factors influencing the choice of packaging containers in the pharmaceutical industry.

(5)

3. State the problems involved in capsules preparation. (5)
4. Describe the objectives of preformulation study. (5)
5. Explain dry granulation method of tablet preparation. (5)
6. Write down the essential characteristics of different ophthalmic preparations. (5)

7. Explain the classification of gelatin used in capsule preparation. (5)

OR

Explain about shampoo. (5)

8. Explain the formulation of vanishing cream and cold cream in details. (5)

OR

Explain about the raw materials used in the formulation of skin care cosmetic products. (5)

Group-C

(Long Answer Type Questions)

10 x 2=20

9. State the functions, ideal characteristics and factors affecting pharmaceutical packaging. (10)
10. Explain different types of packaging material used for pharmaceutical preparation. (10)

OR

Focus elaborately on the production area and evaluation tests of sterile parenteral preparations. (10)

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