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Brainware University
398, Ramkrishnapur Road, Barasat
Kolkata, West Bengal-700125

BRAINWARE UNIVERSITY

Term End Examination 2025-2026

Programme – B.Pharm-2020/B.Pharm-2021/B.Pharm-2022/B.Pharm-2023

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, stability testing of new drug substances and products are described in which ICH guideline?

a) ICHQ1A	b) ICHQ1B
c) ICHQ1C	d) ICHQ6a
- (ii) Identify the example of monotropic polymorph.

a) Glyceryl stearate	b) Sulphur
c) Benzene	d) None of these
- (iii) Select the equation that gives the rate of drug dissolution from a tablet

a) Fick's law	b) Henderson-Hasselbatch equation
c) Noyes-Whitney equation	d) MichelisMenton equation
- (iv) Identify the correct answer, All of the following are the causes of mottling except...

a) Use of coloured drug along with colourless or white-coloured excipient	b) Migration of a dye to the surface of granulation while drying
c) Free rotation of either upper or lower punch during ejection of a tablet	d) Improper mixing of dye especially during direct compression
- (v) Identify the example (s) of soft shell capsule marketed product.

a) Phudin hara	b) Seven seas capsule
c) Both Phudin hara & Seven seas capsule	d) None of these
- (vi) Choose the bloom strength of gelatin gel is considered suitable for capsulation.

a) 50-100g	b) 150-250g
c) 10-40g	d) 350-700g
- (vii) Identify the parenteral container material shows the highest Gas permeation

a) Polypropylene	b) Polystyrene
c) Polyisoprene	d) Neoprene
- (viii) Write an example of Lubricant used in Tablet manufacturing

a) Propyl Paraben	b) Starch
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- Explain about formulation process of toothpaste. (5)
8. Classify the types of glasses used as containers. (5)

OR

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

Group-C

(Long Answer Type Questions)

10 x 2=20

9. Describe about the collapsible metal tubes and metered dose inhaler (MDI). (10)
10. Explain the quality control tests of parenteral products. (10)

OR

- Explain the quality control tests of capsules. (10)

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