



Library  
Pharmaceutical Technology  
Brainware University  
Barasat, Kolkata-700125

## BRAINWARE UNIVERSITY

Term End Examination 2023  
Programme – D.Pharm-2022  
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) Clarification is the term used when the solid content of the product
- |                      |                |
|----------------------|----------------|
| a) Doesn't exceed 1% | b) Exceeds 10% |
| c) Exceeds 5%        | d) Exceeds 2%  |
- (ii) Integrity tests are intended for following filters:
- |                     |                 |
|---------------------|-----------------|
| a) Leaf filters     | b) Drum filters |
| c) Membrane filters | d) Edge filter  |
- (iii) Tell the Eighth edition of Indian Pharmacopoeia was published in
- |         |         |
|---------|---------|
| a) 2010 | b) 2014 |
| c) 2018 | d) 2022 |
- (iv) Tell Liniments are used in –
- |                         |                     |
|-------------------------|---------------------|
| a) Broken skin          | b) Intact skin      |
| c) Internal application | d) Intranasal route |
- (v) The rate of filtration increases, if the viscosity of the liquid \_\_\_\_\_
- |                   |                                       |
|-------------------|---------------------------------------|
| a) Decreases      | b) Increases                          |
| c) Does not alter | d) Initially increases then decreases |
- (vi) Judge Dusting powders should be passed through sieve no \_\_\_\_\_ to enhance its effectiveness.
- |       |       |
|-------|-------|
| a) 85 | b) 60 |
| c) 40 | d) 20 |
- (vii) Predict the percentage of ethanol in elixir varies between-
- |           |           |
|-----------|-----------|
| a) 2-10 % | b) 4-30 % |
| c) 4-20 % | d) 4-40 % |



7. Define Sieve along with its construction and types (3)
8. Describe Mixing with its objectives (3)
9. Classify sweetening agents with examples (3)
10. Define organoleptic pharmaceutical aids with classification (3)
11. Explain about the storage condition of immunological products (3)

OR

Define ointments and classify them with suitable examples (3)

**Group-C**

(Long Answer Type Questions)

5 x 6=30

12. Explain rubber and its ideal properties (5)
13. Define transdermal drug delivery system with classification (5)
14. Define Implantable Drug Delivery Systems with classification (5)
15. Explain advantages of novel drug delivery systems (5)
16. Classify novel drug delivery systems with examples (5)
17. Classify Microencapsulation Drug Delivery Systems with examples (5)

OR

Explain Intrauterine Drug Delivery System with proper classification and examples (5)

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