



## BRAINWARE UNIVERSITY

Term End Examination 2022

Programme – B.Pharm-2018/B.Pharm-2019/B.Pharm-2020

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) Predict the method of checking material thermal stability.
- |                                      |                               |
|--------------------------------------|-------------------------------|
| a) X-ray diffractometry              | b) Raman spectroscopy         |
| c) Differential scanning calorimetry | d) Thermogravimetric analysis |
- (ii) Which methods is not used to determined polymorphs
- |                         |                             |
|-------------------------|-----------------------------|
| a) Hot stage microscopy | b) X-ray powder diffraction |
| c) Dilatometry          | d) Gas chromatography       |
- (iii) Write one example of BCS classification class 1 drugs ?
- |                |                |
|----------------|----------------|
| a) paracetamol | b) aceclofenac |
| c) cimetidine  | d) Furosemide  |
- (iv) Which method is not suitable to prepare granules for thermolabile substance?
- |                       |                    |
|-----------------------|--------------------|
| a) Wet Granulation    | b) Dry Granulation |
| c) Direct Compression | d) none of these   |
- (v) Which is not the particle size determination methods ?
- |                              |               |
|------------------------------|---------------|
| a) Sieving                   | b) Microscopy |
| c) Sedimentation rate method | d) FTIR       |
- (vi) When an optically active substance loss its optical activity without changing its chemical composition is known as .
- |                 |                       |
|-----------------|-----------------------|
| a) Photolysis   | b) Isomerization      |
| c) Racemization | d) Photosensitization |
- (vii) Crown thickness of a tablet is measured by
- |               |                    |
|---------------|--------------------|
| a) Micrometer | b) Pycnometer      |
| c) Hydrometer | d) vernier caliper |
- (viii) Viscosity of gelatin for soft gelatin capsule should be
- |                    |                        |
|--------------------|------------------------|
| a) 25-45miliPoise  | b) 5-15miliPoise       |
| c) 97-115miliPoise | d) Above 200 miliPoise |
- (ix) Chilsonator is used for
- |                    |                               |
|--------------------|-------------------------------|
| a) Granulation     | b) Tablet coating             |
| c) Capsule filling | d) Hardness testing of tablet |



**Group-C**  
(Long Answer Type Questions)

10 x 2=20

9. Explain chemical properties in preformulation study.

(10)

OR

Focus on polymorphism as Preformulation factors in preformulation study briefly.

(10)

10. Summarize different types of tablets in detail.

(10)

OR

Summarize elaborately about the manufacturing of aerosols with advantages and disadvantages.

(10)

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