



BRAINWARE UNIVERSITY

Term End Examination 2023-2024

Programme – B.Pharm-2019/B.Pharm-2020/B.Pharm-2021

Course Name – Industrial Pharmacy I

Course Code - BP502T

(Semester V)

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Brainware University
Barasat, Kolkata -700125

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) Identify the % polymorphism of Barbiturates.

- | | |
|-------|-------|
| a) 56 | b) 63 |
| c) 29 | d) 58 |

(ii) Select the example of Enantiotropic Polymorph.

- | | |
|------------|----------------------|
| a) Sulphur | b) Glyceryl stearate |
| c) Benzene | d) Sulphuric acid |

(iii) Select the method is not used to identify polymorphs

- | | |
|-------------------------|-----------------------------|
| a) Hot stage microscopy | b) X-ray powder diffraction |
| c) Dilatometry | d) Gas chromatography |

(iv) Select the method that is not used to determine Pka.

- | | |
|-----------------------------------|------------------------------|
| a) Conductivity method | b) Dissolution rate method |
| c) Liquid-Liquid partition method | d) Thin layer chromatography |

(v) Select the technique is used to determine glass transition temperature.

- | | |
|--------------------------------------|-------------------------------|
| a) X-ray diffractometry | b) Raman spectroscopy |
| c) Differential scanning calorimetry | d) Thermogravimetric analysis |

(vi) Select the correct option regarding Orange peel effect

- | | |
|--------------------------|--------------------------|
| a) Hard gelatin capsules | b) Film coating tablets |
| c) Uncoated tablets | d) Soft gelatin capsules |

(vii) Select the correct answer, Chilsonator is used for....

- | | |
|--------------------|-------------------------------|
| a) Granulation | b) Tablet coating |
| c) Capsule filling | d) Hardness testing of tablet |

(viii) Choose the correct answer, Cam track guides the movement of....

- a) Die
b) Punch
c) Hopper
d) Feed frame
- (ix) Select the primary purpose of adding a disintegrant in tablet formulation
- a) To enhance tablet color
b) To increase tablet hardness
c) To improve tablet taste
d) To facilitate tablet disintegration
- (x) Identify the super disintegrant in tablet preparation.
- a) Crosscarmellose
b) Starch
c) Tragacanth
d) Agar
- (xi) Identify the correct one, the temperature at which the inversion occurs depends on emulsifier concentration is known as
- a) Phage temperature
b) Inversion temperature
c) Phase inversion temperature
d) Phase temperature
- (xii) Identify the filler that cannot be used for the preparation of tablets for amine containing basic drugs to avoid discoloration of tablets.
- a) Dicalcium phosphate
b) MCC
c) Starch
d) Hydrous lactose
- (xiii) Identify the HLB value of sodium lauryl sulphate.
- a) 6.5
b) 20
c) 25
d) 40
- (xiv) Identify the excipient that can play the role of a diluent, disintegrant, glidant, lubricant and pore/channel former.
- a) Lactose
b) Microcrystalline cellulose
c) Ethyl cellulose
d) Eudragit RL 100
- (xv) Choose the main purpose of the tablet coating process in pharmaceutical manufacturing.
- a) To add flavor to the tablets
b) To improve tablet appearance and protect against environmental factors
c) To increase the tablet size
d) To reduce the solubility of the active ingredient
- (xvi) Predict the commonly used method for tablet compression
- a) Compression molding
b) Blow molding
c) Extrusion
d) Injection molding
- (xvii) Select the correct option, Water attack test is used to identify the alkalinity in
- a) Type-I glass
b) Type-II glass
c) Type-III glass
d) All the 3 types
- (xviii) Identify the parenteral container material shows the highest Gas permeation
- a) Polypropylene
b) Polystyrene
c) Polyisoprene
d) Neoprene
- (xix) Write an example of Preservative
- a) Starch
b) Magnesium Stearate
c) Methyl Paraben
d) Talc
- (xx) Write an example of Lubricant used in Tablet manufacturing
- a) Propyl Paraben
b) Starch
c) Magnesium Stearate
d) Both Propyl Paraben and Starch

Group-B

(Short Answer Type Questions)

5 x 7=35

2. Explain the formulation of vanishing cream and cold cream in details.

(5)

Y.S. 2811
25/09/2017
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- 3. Summarize Pharmaceutical Packaging with advantages and disadvantages. (5)
- 4. Write down the steps involved in tablet Compression. (5)
- 5. Discuss Lyophilization and Spray drying in detail. (5)
- 6. Differentiate between emulsion and suspension (5)
- 7. Describe Henderson-Hasselbalch equation. (5)

OR

- Describe the advantages and disadvantages of liquid dosage forms. (5)
 - 8. Explain about the ingredients and formulation process of Toothpaste. (5)
- OR
- Explain gelatin and classify it. (5)

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Group-C

(Long Answer Type Questions)

10 x 2=20

- 9. Record the excipients involved in the preparation of hard gelatin capsules shell. (10)
- 10. Focus on the evaluation process of moisture content test and bloom strength of gelatin in detail. (10)

OR

Focus on the formulation process of sterile powders in detail. (10)
