



# BRAINWARE UNIVERSITY

Term End Examination 2019 – 20

Programme – Diploma in Pharmacy

Course Name – Pharmaceutical Chemistry I

Course Code –1.2T

(D. Pharm first year final)

Time allotted: 3 Hours

Full Marks: 80

[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)

20 x 1 = 20

1. Choose the correct alternative from the following
  - (i) The first edition of I.P. was published in the year of-
 

a. 1947	b. 1945
c. 1955	d. 1954
  - (ii) pH of blood is-
 

a. 6.8	b. 7.8
c. 4.5	d. 7.4
  - (iii) As per I.P., refrigerated temperature is-
 

a. 0°C-4°C	b. 2°C-8°C
c. 0°C-8°C	d. None of these
  - (iv) The combination of aluminum and magnesium salts as antacid are used to-
 

a. To increase the activity of each antacid	b. Balance the constipation and laxative effect
c. Increase the absorption of each antacid	d. None of these
  - (v) Thioglycolic acid is used for the limit test of
 

a. Lead	b. Heavy metal
c. Iron	d. Sulphar

Library  
Pharmaceutical Technology  
Brainware University

- (vi) Muriatic acid is also known as-
- a. HCl
  - b. H<sub>2</sub>SO<sub>4</sub>
  - c. HNO<sub>3</sub>
  - d. None of these
- (vii) Which of the following is a desensitizing agent?
- a. SnF<sub>2</sub>
  - b. SnCl<sub>2</sub>
  - c. ZnO
  - d. CaCO<sub>3</sub>
- (viii) Zinc oxide is used in dusting powder as-
- a. Anti-infective
  - b. Astringent
  - c. Deodorant
  - d. Astringent and topical protectant
- (ix) Simethicone, used in antacid formulation
- a. oil
  - b. silicone
  - c. alcohol
  - d. none of the above
- (x) Chemically caustic soda is known as-
- a. NaOH
  - b. KOH
  - c. Na<sub>2</sub>CO<sub>3</sub>
  - d. NaHCO<sub>3</sub>
- (xi) Which of the following is used as preservative?
- a. Sodium benzoate
  - b. Sodium salicylate
  - c. Sodium Metabisulphite
  - d. None of the above
- (xii) In the limit test for iron, ammonia is added to
- a. Make the solution alkaline
  - b. Speed up the reaction
  - c. Prevent precipitation
  - d. None of the above
- (xiii) Milk of magnesia is a common name for
- a. Suspension of magnesium hydroxide
  - b. Suspension of magnesium oxide
  - c. Suspension of magnesium carbonate
  - d. None of the above
- (xiv) Rochella salt is
- a. Potassium sodium tartrate
  - b. Antimony potassium tartrate
  - c. Antimony sodium tartrate
  - d. None of the above

- (xv) UNICEF oral dehydration salt (ORS) contain
- |   |  |
|---|--|
| a. Sodium chloride + potassium chloride + dextrose                      | b. Sodium chloride + sodium bicarbonate + dextrose |
| c. Sodium chloride + potassium chloride + sodium bicarbonate + dextrose | d. Sodium chloride + calcium chloride + dextrose   |
- (xvi) Green vitriol is
- |                     |                       |
|---------------------|-----------------------|
| a. Copper sulphate  | b. Magnesium sulphate |
| c. Ferrous sulphate | d. Sodium sulphate    |
- (xvii) Tincture of iodine is -
- |                           |                            |
|---------------------------|----------------------------|
| a. Strong iodine solution | b. Aqueous iodine solution |
| c. Weak iodine solution   | d. None of the above       |
- (xviii) Copper sulphate I.P. is assayed by-
- |                       |                        |
|-----------------------|------------------------|
| a. Iodometric method  | b. Iodometric method   |
| c. Gravimetric method | d. Acid-base titration |
- (xix) Dry ice is a solid form of -
- |                   |                      |
|-------------------|----------------------|
| a. Carbon-dioxide | b. Oxygen            |
| c. Helium         | d. None of the above |
- (xx) The molecular formula of nitrous oxide is-
- |                     |                      |
|---------------------|----------------------|
| a. NO               | b. NO <sub>2</sub>   |
| c. N <sub>2</sub> O | d. None of the above |

Pharmacy Library  
 Birla Institute of Technology  
 Barasat, Kolkata-700125

**Group – B**

(Short Answer Type Questions)

8 x 5 = 40

Answer any *eight* from the following

- |   |       |
|---|-------|
| 2. Write a short note on physiological acid –base balance.                                      | 5     |
| 3. Write a short note on "Limit test of lead".  | 5     |
| 4. Define isotonic, hypotonic and hypertonic solution with examples.                            | 1+2+2 |
| 5. Write a short note on Henderson-Hasselbatch equation for acidic buffer solution.             | 5     |
| 6. Why lead acetate cotton is used in the Limit test of arsenic?                                | 5     |
| 7. Define antacids with examples. Classify it. Why is Antacid always given in combination form? | 1+2+2 |
| 8. Write a short note on pH, pOH and buffer solution with example.                              | 1+2+2 |