

**B. PHARM.
FIRST SEMESTER
PHARMACEUTICAL INORGANIC CHEMISTRY
BP104T**

**SET
B**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration : 3 hrs.

Full Marks : 75

Time : 30 min.

(PART-A: Objective)

Marks : 20

Choose the correct answer from the following:

1×20=20

- The hardest substance in the human body is-
 - Cementum
 - Bone
 - Enamel
 - Dentine
- Calcium carbonate is also known as-
 - Precipitated chalk
 - Precipitated salt
 - Precipitated powder
 - Precipitated paste
- Soluble sulphate and barium chloride will form insoluble sulphate in presence of-
 - H₂SO₄
 - HNO₃
 - HCl
 - H₂S
- Concentration of bicarbonates in extra-cellular fluid is -
 - 75 mEq/L
 - 58 mEq/L
 - 28 mEq/L
 - 10 mEq/L
- Plasma sodium concentration is-
 - 130-140 mEq/L
 - 134-140 mEq/L
 - 135-145 mEq/L
 - 136-142 mEq/L
- What is the volume of interstitial fluid in body fluid compartments?
 - 30L
 - 20L
 - 10L
 - 40L
- What is the molecular weight of sodium fluoride?
 - 41.99
 - 43.99
 - 42.99
 - 44.99
- In Pharmacopoeia, Pharmakon means 'a drug' and poiein means
 - To take
 - To break
 - To make
 - Both a & b
- Which of the following is not the use of Ammonium chloride?
 - Acid-base balance
 - Astringent
 - Diuretics
 - Expectorant
- How much percentage of interstitial fluid constitute body weight?
 - 12-15%
 - 11-15%
 - 13-15%
 - 10-15%

11. The normality of iodine solution used in assay of sodium thiosulphate is-
- a. 0.5 N
 - b. 0.1 N
 - c. 0.2N
 - d. 0.3N
12. Molecular weight of ammonium chloride is-
- a. 52.49 g/mol
 - b. 53.49 g/mol
 - c. 51.49 g/mol
 - d. 54.49 g/mol
13. Copper sulphate exists in the form of _____ crystalline granule-
- a. Green
 - b. Blue
 - c. Reddish
 - d. Pink
14. Zinc sulphate is insoluble in-
- a. Distilled water
 - b. Alcohol
 - c. Glycerine
 - d. All of the above
15. The active inorganic compound present in bleaching powder is-
- a. Calcium monochloride
 - b. Calcium chloride
 - c. Calcium dichloride
 - d. Calcium chlorite
16. An example of stimulant expectorant-
- a. Senega
 - b. Lemon
 - c. Indian squill
 - d. Both a & c
17. An example of macrolide antibiotics-
- a. Penicillin
 - b. Erythromycin
 - c. Streptomycin
 - d. Lincomycin
18. Hydrogen peroxide can be obtained from the paste of-
- a. Barium oxide
 - b. Barium peroxide
 - c. Barium dioxide
 - d. Barium
19. Ferrous sulphate is soluble in-
- a. Ethanol
 - b. Distilled water
 - c. Chloroform
 - d. All of the above
20. Boric acid having ___ mol.wt.
- a. 50.33 g/mol
 - b. 61.83 g/mol
 - c. 62.77g/mol
 - d. 58.87g/mol

(PART-B : Descriptive)

Time : 2 hrs. 30 min.

Marks : 35

[Answer any seven (7) questions]

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|---|---------------|
| 1. What are antacids? Claasify them with suitable examples? Write preparation method used for sodium bicarbonate? | 1+2+2
=5 |
| 2. Define limit test? Write down the principle and method involved in limit test for chloride ? | 1+2+2
=5 |
| 3. Describe the principle and method involved in limit test for iron? | 2.5+2.5
=5 |
| 4. Define dentifrices ? Describe the role of fluoride in the treatment of dental caries? Write about preparation and uses of sodium fluoride? | 1+2+2
=5 |
| 5. What is pH? Calculate the pH of alkaline buffer solution with example? Define Lewis concept for acid and base with example? | 1+2+2
=5 |
| 6. Define expectorants? Claasify them with example? Write two uses of ammonium chloride? | 1+3+1
=5 |
| 7. What are antidotes? Write a note on oral rehydration salt (ORS)? | 1+4=5 |
| 8. Define cathartics, purgatives and laxatives? Write preparation and properties of magnesium sulphate? | 3+2=5 |
| 9. Define emetics? Write a note on prepatation and uses of copper sulphate? | 1+4=5 |

(PART-C : Long type questions)

[Answer any two (2) questions]

1. Define antimicrobial agent? Classify them with examples? Describe the mechanism of action for antimicrobial agent? Write two preparation method of hydrogen peroxide? 1+4+3+2
=10
2. Define impurities? Write down the types and sources of impurities with example? 1+3+6
=10
3. What is buffer solution? Write down the types of buffer solution with example? Explain about buffer action by giving example of acidic buffer solution? Write four physiological function of Mg^{2+} ? 2+3+3+2
=10

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