

Time: 3 hours

Marks: 75

Q. 1 Attempt all multiple-choice questions

(MCQ)

20M

1 Gastric acidifiers are the drugs which are used to -----the acidity

- a Decrease
- b Increase
- c Stop
- d None of these

2 In limit test of chloride _____ is added to get precipitate.

- a AgNO₃
- b BaCl₂
- c BaSO₄
- d HSCH₂ CO₂ H

3 The first Indian Pharmacopoeia was published in year

- a 1955
- b 1975
- c 1950
- d 1963

4 _____ is the indicator used for assay of ammonium chloride

- a Phenolphthalein
- b Mordant Black II
- c Starch
- d KMnO₄

- 5 The _____ class of compounds act by stimulating the flow of respiratory track secretions
- a expectorant
 - b Emetics
 - c antidote
 - d astringent
- 6 Which of the following are used in the study of thyroid function
- a Phosphorus-32
 - b Cobalt-60
 - c Iodine-131
 - d Yttrium-90
- 7 Sodium Fluoride is an
- a Antacid
 - b Anticaries agent
 - c Antiemetic
 - d Astringent
- 8 Limit test of arsenic is based on the reaction of arsenic gas with hydrogen ions to form _____ stain on mercuric chloride paper in presence of KI
- a Yellow
 - b Purple
 - c Red
 - d Green
- 9 _____ for treatment of anamia.
- a Copper sulphate
 - b Ferrous gluconate
 - c Sodium thiosulphate
 - d Ammonium chloride

- 10 Role of alcohol in limit test of sulphate is to prevent _____
- a solubilization
 - b Turbidity
 - c Purple colour formation
 - d Supersaturation
- 11 The species which have different atomic mass number but same atomic number is called
- a Isobars
 - b Isotopes
 - c Isomers
 - d Nuclide
- 12 Light kaolin is
- a Purified natural hydrated aluminium silicate
 - b Native hydrated aluminum silicate
 - c Purified natural hydrated aluminium trisilicate
 - d Native hydrated aluminum trisilicate
- 13 What is the chemical formula of Calcium Carbonate
- a CaCo_3
 - b Ca_2CO_3
 - c CaCO_2
 - d Ca_2O_3
- 14 Which of the following is a physiological buffer system?
- a Boric acid/ Sodium borate
 - b Ammonia/ NH_4Cl
 - c Haemoglobin
 - d acetic acid/sodium acetate.

- 15 Zinc sulphate is an _____
- a antidote
 - b expectorant
 - c antacid
 - d astringent
- 16 Which of the following is an emetic as well as used in the treatment of phosphorous poisoning?
- a Sodium thiosulphate
 - b Ammonium chloride
 - c Copper sulphate
 - d Hydrochloric acid
- 17 The neutralizing capacity of an antacid is expressed in
- a Miliequivalents of HCl
 - b ppm
 - c ml
 - d mg
- 18 In limit test of iron citric acid does not allow precipitation of iron with _____
- a Ammonia
 - b Thioglycollic acid
 - c Formaldehyde
 - d Barium Sulphate
- 19 The Molecular formula for sodium orthophosphate is
- a Na_2PO_4
 - b NaHPO_4
 - c Na_2HPO_4
 - d Na_2OPO_4

20 Potassium deficit < 3.5 mEq/L is known

- a Hypokalemia
- b Hypocalcemia
- c Hyponatremia
- d Hypercalcemia

Q 2. Attempt any two questions out of three

[2 x 10M = 20M]

- 1 a) Discuss in brief various sources of Impurities in Pharmaceutical Substances 5M
- b) Write a note on Radiopharmaceuticals. 5M
- 2 a) What are cathartics? Classify cathartics based on mechanism and give its significance. 5M
- b) Discuss different theories of acids and bases with examples. Give Henderson Hassel Balch Equation. Explain terms involved in it. 5 M
- 3 a) Give Principle, reaction and procedure involved in the limit test of arsenic as per IP. 5M
- b) Write a note on Antacid Combination Therapy 5M

Q 3. Attempt any seven out of nine

[7 x 5 =35M]

- 1 Give Procedure, principle and reaction of Limit test for Chloride. 5M
- 2 Define Antidote and Write a note on Sodium Nitrite and Sodium thiosulphate as Antidote 5M
- 3 Give preparation, properties, uses and assay of Sodium Chloride 5M
- 4 Write a note on preparation, principle involved in the assay and uses of Ammonium Chloride 5M
- 5 Classify antacids and discuss in detail magnesium containing antacid 5M
- 6 Explain physiological role of Sodium, Phosphate. What are the conditions associated with imbalance of phosphate 5 M
- 7 Define Antimicrobials and Give Classification of antimicrobials based on Mechanism of action. Elaborate on Hydrogen peroxide 5M

8 What are dentifrices? Explain following terms with suitable examples: anticaries agent, dental desensitizers. 5M

9 [i] Match the following 3M

Column A

Ammonium Chloride

Bentonite

Sodium Chloride

Chlorinated Lime

Ferrous Sulphate

Sodium Bicarbonate

Column B

Protective and adsorbent

Haematinics

Antimicrobial

Acidifier

Electrolyte Replacement Therapy

Protective and adsorbent

[ii] Give category and method of preparation of Ferrous Sulphate 2M
