

- 1.(a) Define limit test and give its significance. (3)
(b) Give two characteristic tests for calcium and explain reactions. (4)
(c) Write the principle and procedure involved in the limit test for (i) sulphates (3+4)
(ii) heavy metals.
- OR**
- (d) With a neat labelled diagram explain the principle and procedure involved in the limit test for arsenic. (8)
(e) Explain the importance of the following pharmacopoeial tests with suitable examples: (i) Loss on drying (ii) Loss on ignition. (6)
- 2.(a) List out the official preparations of sodium chloride. Write the composition of Ringer's solution. Discuss the principle and procedure involved in the assay of sodium chloride. (2+2+4)
(b) Write a brief note on adsorbents. (6)
- OR**
- (c) Write preparation, properties of any two official calcium replenishers. (5)
(d) What are antacids? Write preparation and properties of (i) Magnesium trisilicate (6)
(ii) Aluminium hydroxide gel. (6)
(e) Write a note on intraperitoneal dialysis fluids. (3)
- 3.(a) What are antioxidants? Write preparation and properties of any two official antioxidants. (7)
(b) List out official iron compounds used as haematinics. Write preparation and properties of ferric ammonium citrate. (7)
- OR**
- (c) Give a brief account of the chemistry, properties and applications of (i) Bentonite (7)
(ii) Magnesium stearate. (7)
(d) Write preparation, properties and uses of (i) Zinc chloride (ii) Sodium acid phosphate. (7)
- 4.(a) What are emetics? Write preparation and properties of (i) Copper sulphate (ii) Potassium antimony tartarate. (7)
(b) Write a note on inhalants. (7)
- OR**
- (c) What are expectorants? Write preparation and properties of (i) Potassium iodide (8)
(ii) Ammonium chloride (6)
(d) Write a note on the treatment of cyanide poisoning. (6)
- 5.(a) What are antiseptics? Write preparation, properties and uses of (i) Potassium permanganate (ii) Yellow mercuric oxide. (8)
(b) Write a note on antiseptics agents. (6)
- OR**
- (c) Write the chemistry, preparation, properties and uses of (i) Plaster of Paris (ii) Barium sulphate. (8)
(d) Write principle and procedure involved in the assay of (i) Zinc oxide (ii) Hydrogen peroxide. (6)
