

Branch- CHEMISTRY

CORE ELECTIVE - II PHARMACEUTICAL CHEMISTRY

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10x2 = 20)

- 1 Define drug.
- 2 Write the symptom and causes of anaemia.
- 3 What are antibiotics ? Give two examples.
- 4 Give the structure of penicillin.
- 5 What are antiseptics? Give one example.
- 6 ,What are tranquilizers? Give two examples.
- 7 Write the uses of ferrous sulphate.
- 8 Outline the synthesis of yellow mercuric oxide.
- 9 What is the normal blood pressure of an adult?
- 10 What is systolic pressure?

SECTION - B (25 Marks)

Answer ALL Questions'

ALL Questions Carry EQUAL Marks (5 x 5 = 25)

- 11 a Write the symptoms and first aid for botulism, and mushroom poisoning.
OR
b Discuss the routes of drug administration.
- 12 a Outline the synthesis of (a) Phenacetin- (b) Analgin. (3 + 2)
OR
b Outline the synthesis of (a) Sulphathiazole (b) Sulpha pyridine. (3 + 2)
- 13 a Discuss the phenolic compounds which are used as disinfectants.
OR
b Discuss the anti-neoplastic drugs with one example.
- 14 a Outline the synthesis of (a) Thiotepa (b) Carbasone. (2 + 3)
OR
b Write a note on (a) Aluminium hydroxide gel (b) Ferrous gluconate. (VA+IVz)
- 15 a Write short notes on coagulants.
OR
b Discuss the composition of blood.

SECTION - C (30 Marks)

Answer any THREE Questions

ALL Questions Carry EQUAL Marks (3 x 10 = 30)

- 16 Write the causes, symptoms and drugs used in the treatment of
(a) Malaria (b) Asthma (c) Cholera (d) Typhoid. (4x2^2=10)
- 17 Outline the synthesis of (a) Ibuprofen (b) Pethidine (c) Methadone
(4 + 3 + 3)
- 18 Discus briefly the cationic surfactants and dyes. (5 + 5)
- 19 Discuss in detail the medicinally important arsenic compounds.
- 20 Write the functions of plasma protein.