

Semester-6

Chemistry – 8A: Drug Chemistry and Enzymes (Elective)

Block – 1: Elementary aspects of drugs

Unit - 1: Terminology of drugs.

Unit – 2: Nomenclature and Classification of drugs

Unit – 3: Analgesics.

Block-2: Drugs Action-1.

Unit – 4: Hypnotics, Sedatives & Tranquilisers.

Unit – 5: Antimalarial.

Unit – 6: Antibacterial.

Block-3: Drugs Action -2.

Unit – 7: Antibiotics

Unit – 8: Cardiovascular drugs & CNS stimulants

Unit – 9: Antihelminthics

Unit -10: Anti HIV-AIDS Drugs.

Block-4: Enzymes and role of Enzymes in drug action

Unit – 11: Introduction to enzymes, Mechanism and factors affecting on enzyme

action

Unit – 12: Enzyme Inhibition

Unit – 13: Drug action receptor theory.

Practical: Chemistry – 8A: Drugs synthesis

Block – 1; Synthesis of drugs -1

Unit – 1: Synthesis of Chloroquine phosphate.

Unit – 2: Synthesis of Isatin.

Unit – 3: Synthesis of 2- amino – 5-phenyl-1,3,4-oxadiazole.

Block – 2; Synthesis of drugs -2

Unit – 4: Synthesis of Magnesium Carbonate

Unit – 5: Synthesis of Picric Acid

Unit – 6: Synthesis of Milk of Magnesia.