

GOVERNMENT DEGREE COLLEGE (A), RAJAMUNDRY

CERTIFICATE COURSE-II(2021-2022)

PHARMACOLOGY- ESSENTIALS (credits-02)

(45 lectures)

UNIT-I

Introduction to Pharmacology- Definition, historical landmarks and scope of pharmacology, nature and source of drugs, essential drugs concept and routes of drug administration, Agonists, antagonists(competitive and non competitive), spare receptors, addiction, tolerance, dependence, tachyphylaxis, idiosyncrasy, allergy.

UNIT-II

Drugs acting on respiratory system Respiratory stimulants, Bronchodilators, Nasal decongestants, Expectorants and Antitussive agents.

UNIT-III

Drugs acting on digestive system-carminatives, digest ants, Bitters, Antacids and drugs used in peptic ulcer, purgatives ,and laxatives, Antidiarrhoeals, Emetics, Anti-emetics, Antispasmodics.

UNIT-IV

Drugs acting on COX, NON-selective inhibitors, selective COX inhibitors
Preferential drugs, analgesics, antipyretics, anti inflammatory drugs

Practicals:

(15 lectures)

1. Preparation of paracetamol
2. Commonly used instruments in experimental pharmacology.

3. Study of common laboratory animals.