



## INTEGRAL INSTITUTE OF MEDICAL SCIENCES & RESEARCH (IIMSR)

## DEPARTMENT OF MEDICAL PHARMACOLOGY



PhD. Entrance Syllabus

**Session: 2024-25** 



## INTEGRAL INSTITUTE OF MEDICAL SCIENCES & RESEARCH PhD. ENTRANCE SYLLABUS-2024 MEDICAL PHARMACOLOGY

- 1. General pharmacology- Basic concepts of Pharmacokinetics, Pharmacodynamics and new drug development Details of Essential drugs, Pharmacovigilance, Pharmacoepidemiology, Pharmacogenetics, Pharmacoeconomics, Gene Therapy, Therapeutic drug monitoring, Drug interactions.
- 2. Autonomic nervous system- Neurotransmitters, Pharmacology of drugs acting on Adrenergic and Cholinergic system, Recent advances in the treatment of Glaucoma and Benign prostatic hypertrophy, Pheochromocytoma, Migraine. Recent advances in B blockers.
- **3.** Central nervous system- Neurotransmitters, neuromodulators. Drugs for epilepsy, Parkinsonism, Mental illnesses, Analgesia, Anaesthesia, Skeletal muscle relaxation. Recent advances in the treatment of Alzheimer's, Epilepsy, Rheumatoid arthritis, Gout, Anesthesia. Management of pain.
- **4.** Endocrine system- Drugs effective in thyroid disturbances, Diabetes mellitus. Basic pharmacology of corticosteroids, contraceptive agents and oxytocics. Recent advances in Osteoporosis, DM and infertility
- **5.** Cardiovascular system- Drugs for Hypertension, Angina, Congestive cardiac failure, Hyperlipidemia, Shock, Arrhythmias with recent advances. Drugs effective in coagulation disorders and anemia with recent advances.
- 6. Respiratory system- Drugs useful in treatment of Bronchial asthma and cough
- 7. Drugs acting on Kidney- Pharmacology of Diuretic agents and antidiuretic agents
- **8. Antimicrobial agents-** Pharmacology of Individual groups of antimicrobial agents. National policies for Treatment of tuberculosis, leprosy, malaria, HIV infection. Drugs for amoebiasis, fungal infections and helminthic infestations
- 9. Anticancer agents and Immunomodulators
- 10. Gastrointestinal system- Drugs effective for motility disorders and Peptic ulcer