

**DEPARTMENT OF PHARMACOLOGY  
FACULTY OF MEDICAL SCIENCES  
KBN UNIVERSITY**

**Date: 27-8-25**

**SYLLABUS FOR PG ENTRANCE TEST IN PHARMACOLOGY**

**I. FUNDAMENTALS/GENERAL PHARMACOLOGY**

- Pharmacokinetics and pharmacodynamics
- Drug-receptor interactions, signal transduction

**II. SYSTEMS PHARMACOLOGY**

- CNS, cardiovascular, autonomic, gastrointestinal, respiratory systems
- Drugs acting on blood, renal, autacoids, hormones, immunopharmacology
- General principles of antimicrobial chemotherapy, rational use of antibiotics
- Penicillins, Cephalosporin, Fluoroquinolones, Macrolides, Aminoglycoside, Tetracyclines, Chloramphenicol and polypeptide antibiotics etc.
- Chemotherapy of tuberculosis, Leprosy, UTI, Parasitic infection, Fungal infections, Cancer Chemotherapy

**III. TOXICOLOGY, DRUG METABOLISM, ADVERSE REACTIONS, DRUG-DRUG & DRUG-FOOD INTERACTIONS**

**IV. PHARMACOVIGILANCE**

**V. BIOASSAYS, IMMUNOASSAYS, THERAPEUTIC DRUG MONITORING**

**VI. NATURAL PRODUCTS, HERBAL PHARMACOLOGY**

**VII. NEW DRUG DEVELOPMENT, PRECLINICAL TESTING, DRUG SAFETY, GLP/GCP CONCEPTS, PHASES OF CLINICAL TRIALS**

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