

Information on GPAT-Paper Pattern and Major Topics

For post-graduate Pharmacy courses such as M Pharm, one must clear Graduate Pharmacy Aptitude Test (GPAT), conducted by All India Council for Technical Education (AICTE).

Previously GATE was conducted for M. Tech. Pharmaceutical Sciences but since 2010 GPAT has been started and there is no more GATE PY, So we can say that GATE PY till 2009 = GPAT from 2010

Paper Pattern

The computer based GPAT 2014 exam consists of 125 multiple choice questions to be completed in 3 hours. Correct answers are worth 4 marks each and negative marking of -1 mark for each incorrect answer is applicable.

Major Topics in GPAT

The exam is broadly based on 4 topics:

1. **PHARMACEUTICS:** Important topics include: Introduction to Physical pharmacy, Importance of microbiology in pharmacy, Introduction to pharmaceutical jurisprudence & ethics, Introduction to dispensing and community pharmacy, Importance of unit operations in manufacturing, Dosages Forms, designing & evaluation, Biopharmaceutics & Pharmacokinetics
2. **PHARMACEUTICAL CHEMISTRY:** Important topics include: Inorganic pharmaceutical & medicinal chemistry, Physical Chemistry and its importance in pharmacy, Organic Chemistry and its importance in pharmacy, Biochemistry, Medicinal Chemistry, Pharmaceutical Analysis
3. **PHARMACOLOGY:** Important topics include: Immunopathophysiology, Pathophysiology of Common Diseases, Fundamentals of general pharmacology, Pharmacology of Peripheral Nervous System, Drugs Acting on the Hemopoietic System, Autacoids, Drugs Acting on the Respiratory System, Gastrointestinal Tract, Pharmacology of Endocrine System, Chemotherapy, Principles of Toxicology, Basic Concepts of Pharmacotherapy
4. **PHARMACOGNOSY:** Important topics include: Sources of Drugs, Crude Drugs, Systematic pharmacognostic study, Steroidal, Purines, Studies of Traditional Drugs, morphology, chemical nature of chief constituents, pharmacology, categories and common uses and marketed formulations of indigenous drugs, General Techniques of Biosynthetic Studies and Basic Metabolic Pathways/Biogenesis, Glycosides, Role of plant-based drugs on National economy.