



### 1. PHARMACEUTICS

TOPIC NAME	LECTURE	PRACTICE	REVISION	PYQS	TEST
Pharmacy Profession					
Pharmaceuticals and Dosage Forms					
Routes of Administration					
ADME (Absorption, Distribution, Metabolism, Elimination)					
Sources of Drug Information					
Allopathic dosage form					
Crude extract					
Allergenic extract					
Ayurvedic system of medicine					
Homeopathic system of medicine					
Biological Products					à 🔲
GMP					
Pharmaceutical Plant, location, layout					
Dosage Form Necessities and Additives		100	P 0		
Powders Powder Powders Powders Powders Powders Powders Powders Powders Powder Powders Powder Powders Powder Powders Powder		AY -		M	
Capsules Cap	W - 1	\ \ \		7.4	
Tablets Tablets					
Parenterals - product requiring sterile packaging					
Suspensions					
Emulsions	A		A L		
Suppositories					
Semisolids					
Liquids (solutions, syrups, elixirs, spirits, aromatic water)					
Pharmaceutical Aerosols					
Ophthalmic preparations	7				
Preformulations Preformulations			V		//
Radio Pharmaceuticals					
Stability of formulated products					
Kinetic Principles and Stability Testing				9	
Prolonged Action Pharmaceuticals					
Novel Drug delivery system					
Cosmetics					
Packaging Materials					
GMP and Validation					
Pilot plant scale up techniques					

### 2. PHYSICAL PHARMACY

TOPIC NAME	LECTURE	PRACTICE	REVISION	PYQS	TEST
Matter and Properties of Matter					

			<del>,</del>		
Micromeritics and Powder Rheology					
Surface and Interfacial Phenomena					
Viscosity and Rheology					
Dispersion Systems					
Complexation					
Buffers					
Solubility					
3. BIOPHARMACEUTICS AND PHARMACOKINETI	<b>CS</b>				
TOPIC NAME	LECTURE	PRACTICE	REVISION	PYQS	TEST
Biopharmaceutics					
Bioavailability and Bioequivalence					
Biopharmaceutical Statistics					
4. PHARMACEUTICAL ENGINEERING					N.
TOPIC NAME	LECTURE	PRACTICE	REVISION	PYQS	TEST
Fluid Flow		<b>W</b> \\\			
Heat Transfer					
Evaporation	0 - 4				
Distillation					
Drying					
Size Reduction and Size Separation					
Extraction					
Mixing					
Crystallization					
Filtration and Centrifugation					
Dehumidification and Humidity Control					
Refrigeration and Air Conditioning					7/-
Material of Construction					
Automated Process Control Systems					
Industrial Hazards and Safety Precautions					
5. DISPENSING & HOSPITAL PHARMACY					
TOPIC NAME	LECTURE	PRACTICE	REVISION	PYQS	TEST
Laboratory Equipment and Prescription Handling					
Percolation Process Preparations		Lie De			
Maceration Process Preparations					
Marketed vs. Dispensed Products					
Posological Calculations					
Allegation, Dilution, and Isotonic Preparations					
Patent and Generic Products Study					
Patent and Generic Products Study  Compounding and Dispensing					

Mock Pharmacy Design					
6. PHARMACOLOGY					
TOPIC NAME	LECTURE	PRACTICE	REVISION	PYQS	TEST
General Pharmacology					
Pharmacology of peripheral nervous system					
Pharmacology of cardiovascular System Drugs					
Drugs acting on urinary system					
Drugs acting on Respiratory system					
Pharmacology of central nervous System					
Pharmacology of Endocrine system				, I	
Chemotherapy					
Autacoids and their Antagonists					
Pharmacology of drug acting on the gastrointestinal tract					
Chronopharmacology					
Immunopharmacology					
Chemotherapy of Malignant Diseases					
Peptides and proteins as mediators					
Nitric oxide	9 - A				
Vitamins and Minerals					
Principles of toxicology					
			N \		10
7. CLINICAL PHARMACY AND THERAPEUTICS					- 1
TOPIC NAME	LECTURE	PRACTICE	REVISION	PYQS	TEST
Clinical Pharmacy Principles					
Clinical Trials					
Therapeutic Drug Monitoring					
Pharmacovigilance					
Therapy for Systemic and Neurological Disorders					<u> </u>
Therapy for Infectious and Endocrine Disorders					
Therapy for Malignant and Skin Disorders					
8. ANATOMY, PHYSIOLOGY AND HEALTH EDUCAT	ΓΙΟΝ				
TOPIC NAME	LECTURE	PRACTICE	REVISION	PYQS	TEST
Cell Physiology					
The Blood					
Gastrointestinal Tract					
Respiratory System					
Autonomic Nervous System					
Sense Organs					
Skeletal System					

Central Nervous System					
Urinary System					
Endocrine Glands					
Reproductive System					
Cardiovascular System					
Lymphatic System					
9. PATHOPHYSIOLOGY					
TOPIC NAME	LECTURE	PRACTICE	REVISION	PYQS	TEST
Basic Principles of Cell Injury and Adaptation					
Basic Mechanisms of Inflammation and Repair					
Hypersensitivity					
Auto-Immunity and Diseases of Immunity					
Neoplastic Diseases					
Shock					
Protein-Calorie Malnutrition, Vitamins, Obesity, Starvation			WA.		
Biological Effects of Radiation					
Pathophysiology of Common Diseases					
Infectious Diseases					
10. PHARMACOGNOSY					
10. PHARMACOGNOSY  TOPIC NAME	LECTURE	PRACTICE	REVISION	PYQS	TEST
	LECTURE	PRACTICE	REVISION	PYQS	TEST
TOPIC NAME	LECTURE	PRACTICE	REVISION	PYQS	TEST
TOPIC NAME Introductory Pharmacognosy	LECTURE	PRACTICE	REVISION	PYQS	TEST
TOPIC NAME Introductory Pharmacognosy Classification of Crude Drugs	LECTURE	PRACTICE	REVISION	PYQS	TEST
TOPIC NAME  Introductory Pharmacognosy  Classification of Crude Drugs  Sources of Crude Drugs	LECTURE	PRACTICE	REVISION	PYQS	TEST
TOPIC NAME  Introductory Pharmacognosy  Classification of Crude Drugs  Sources of Crude Drugs  Factors Influencing Quality of Crude Drugs	LECTURE	PRACTICE	REVISION	PYQS	TEST
TOPIC NAME  Introductory Pharmacognosy  Classification of Crude Drugs  Sources of Crude Drugs  Factors Influencing Quality of Crude Drugs  Techniques in Microscopy	LECTURE	PRACTICE	REVISION	PYQS	TEST
Introductory Pharmacognosy Classification of Crude Drugs Sources of Crude Drugs Factors Influencing Quality of Crude Drugs Techniques in Microscopy Introduction to Phytoconstituents	LECTURE	PRACTICE	REVISION	PYQS	TEST
Introductory Pharmacognosy Classification of Crude Drugs Sources of Crude Drugs Factors Influencing Quality of Crude Drugs Techniques in Microscopy Introduction to Phytoconstituents Principles of Plant Classification	LECTURE	PRACTICE	REVISION	PYQS	TEST
Introductory Pharmacognosy Classification of Crude Drugs Sources of Crude Drugs Factors Influencing Quality of Crude Drugs Techniques in Microscopy Introduction to Phytoconstituents Principles of Plant Classification Pharmaceutical Aids	LECTURE	PRACTICE	REVISION	PYQS	TEST
Introductory Pharmacognosy Classification of Crude Drugs Sources of Crude Drugs Factors Influencing Quality of Crude Drugs Techniques in Microscopy Introduction to Phytoconstituents Principles of Plant Classification Pharmaceutical Aids Animal Products	LECTURE	PRACTICE	REVISION	PYQS	TEST  O O O O O O O O O O O O O O O O O O
Introductory Pharmacognosy Classification of Crude Drugs Sources of Crude Drugs Factors Influencing Quality of Crude Drugs Techniques in Microscopy Introduction to Phytoconstituents Principles of Plant Classification Pharmaceutical Aids Animal Products Plant Products	LECTURE	PRACTICE	REVISION  One of the content of the	PYQS	TEST  O O O O O O O O O O O O O O O O O O
Introductory Pharmacognosy Classification of Crude Drugs Sources of Crude Drugs Factors Influencing Quality of Crude Drugs Techniques in Microscopy Introduction to Phytoconstituents Principles of Plant Classification Pharmaceutical Aids Animal Products Plant Products Toxic Drugs	LECTURE	PRACTICE	REVISION	PYQS	TEST
Introductory Pharmacognosy Classification of Crude Drugs Sources of Crude Drugs Factors Influencing Quality of Crude Drugs Techniques in Microscopy Introduction to Phytoconstituents Principles of Plant Classification Pharmaceutical Aids Animal Products Plant Products Toxic Drugs Enzymes	LECTURE	PRACTICE	REVISION	PYQS	TEST
Introductory Pharmacognosy Classification of Crude Drugs Sources of Crude Drugs Factors Influencing Quality of Crude Drugs Techniques in Microscopy Introduction to Phytoconstituents Principles of Plant Classification Pharmaceutical Aids Animal Products Plant Products Toxic Drugs Enzymes Natural Pesticides and Insecticides	LECTURE	PRACTICE	REVISION	PYQS	TEST
Introductory Pharmacognosy Classification of Crude Drugs Sources of Crude Drugs Factors Influencing Quality of Crude Drugs Techniques in Microscopy Introduction to Phytoconstituents Principles of Plant Classification Pharmaceutical Aids Animal Products Plant Products Toxic Drugs Enzymes Natural Pesticides and Insecticides Adulteration and Evaluation of Crude Drugs	LECTURE	PRACTICE	REVISION	PYQS	TEST
Introductory Pharmacognosy Classification of Crude Drugs Sources of Crude Drugs Factors Influencing Quality of Crude Drugs Techniques in Microscopy Introduction to Phytoconstituents Principles of Plant Classification Pharmaceutical Aids Animal Products Plant Products Toxic Drugs Enzymes Natural Pesticides and Insecticides Adulteration and Evaluation of Crude Drugs Quantitative Microscopy	LECTURE	PRACTICE  PRACTICE	REVISION	PYQS	TEST

Volatile Oils					
Resinous Drugs					
Glycosides					
Alkaloids					
Herbarium					
Extraction and Isolation Techniques					
Phytopharmaceuticals					
Quality Control and Standardization of Herbal Drugs					
Herbal Formulations					
Worldwide Trade of Crude Drugs and Volatile Oils					
Plant Biotechnology				H	
Herbal Cosmetics					
Traditional Herbal Drugs					
Plants-Based Industries and Research Institutes in India					\
Patents					
ratents					
11. ORGANIC CHEMISTRY					
TOPIC NAME	LECTURE	PRACTICE	REVISION	PYQS	TEST
General Principles	W - A				
Different Classes of Compounds					
Protection and Deprotection of Groups					
Protection and Deprotection of Groups Aromaticity & aromatic chemistry					
Protection and Deprotection of Groups					
Protection and Deprotection of Groups  Aromaticity & aromatic chemistry  Different aromatic classes of compounds					
Protection and Deprotection of Groups Aromaticity & aromatic chemistry Different aromatic classes of compounds Polycyclic Aromatic Hydrocarbons					
Protection and Deprotection of Groups Aromaticity & aromatic chemistry Different aromatic classes of compounds Polycyclic Aromatic Hydrocarbons Carbonyl Chemistry					
Protection and Deprotection of Groups  Aromaticity & aromatic chemistry  Different aromatic classes of compounds  Polycyclic Aromatic Hydrocarbons  Carbonyl Chemistry  Heterocyclic Chemistry					
Protection and Deprotection of Groups  Aromaticity & aromatic chemistry  Different aromatic classes of compounds  Polycyclic Aromatic Hydrocarbons  Carbonyl Chemistry  Heterocyclic Chemistry  Bridged Rings					
Protection and Deprotection of Groups  Aromaticity & aromatic chemistry  Different aromatic classes of compounds  Polycyclic Aromatic Hydrocarbons  Carbonyl Chemistry  Heterocyclic Chemistry  Bridged Rings  Kinetic and Thermodynamic Control					
Protection and Deprotection of Groups  Aromaticity & aromatic chemistry  Different aromatic classes of compounds  Polycyclic Aromatic Hydrocarbons  Carbonyl Chemistry  Heterocyclic Chemistry  Bridged Rings  Kinetic and Thermodynamic Control  Stereochemistry					
Protection and Deprotection of Groups Aromaticity & aromatic chemistry Different aromatic classes of compounds Polycyclic Aromatic Hydrocarbons Carbonyl Chemistry Heterocyclic Chemistry Bridged Rings Kinetic and Thermodynamic Control Stereochemistry Carbohydrates					
Protection and Deprotection of Groups Aromaticity & aromatic chemistry Different aromatic classes of compounds Polycyclic Aromatic Hydrocarbons Carbonyl Chemistry Heterocyclic Chemistry Bridged Rings Kinetic and Thermodynamic Control Stereochemistry Carbohydrates Amino Acids and Proteins					
Protection and Deprotection of Groups Aromaticity & aromatic chemistry Different aromatic classes of compounds Polycyclic Aromatic Hydrocarbons Carbonyl Chemistry Heterocyclic Chemistry Bridged Rings Kinetic and Thermodynamic Control Stereochemistry Carbohydrates Amino Acids and Proteins Organometallic Chemistry Pericyclic Reactions					
Protection and Deprotection of Groups Aromaticity & aromatic chemistry Different aromatic classes of compounds Polycyclic Aromatic Hydrocarbons Carbonyl Chemistry Heterocyclic Chemistry Bridged Rings Kinetic and Thermodynamic Control Stereochemistry Carbohydrates Amino Acids and Proteins Organometallic Chemistry Pericyclic Reactions					
Protection and Deprotection of Groups Aromaticity & aromatic chemistry Different aromatic classes of compounds Polycyclic Aromatic Hydrocarbons Carbonyl Chemistry Heterocyclic Chemistry Bridged Rings Kinetic and Thermodynamic Control Stereochemistry Carbohydrates Amino Acids and Proteins Organometallic Chemistry Pericyclic Reactions  12. PHARMACEUTICAL CHEMISTRY TOPIC NAME	LECTURE	PRACTICE	REVISION	PYQS	TEST
Protection and Deprotection of Groups Aromaticity & aromatic chemistry  Different aromatic classes of compounds Polycyclic Aromatic Hydrocarbons Carbonyl Chemistry Heterocyclic Chemistry Bridged Rings Kinetic and Thermodynamic Control Stereochemistry Carbohydrates Amino Acids and Proteins Organometallic Chemistry Pericyclic Reactions  12. PHARMACEUTICAL CHEMISTRY  TOPIC NAME Pharmaceutical Impurities	LECTURE	PRACTICE	REVISION	PYQS	TEST
Protection and Deprotection of Groups Aromaticity & aromatic chemistry Different aromatic classes of compounds Polycyclic Aromatic Hydrocarbons Carbonyl Chemistry Heterocyclic Chemistry Bridged Rings Kinetic and Thermodynamic Control Stereochemistry Carbohydrates Amino Acids and Proteins Organometallic Chemistry Pericyclic Reactions  12. PHARMACEUTICAL CHEMISTRY TOPIC NAME Pharmaceutical Impurities Monographs	LECTURE	PRACTICE	REVISION	PYQS	TEST
Protection and Deprotection of Groups Aromaticity & aromatic chemistry Different aromatic classes of compounds Polycyclic Aromatic Hydrocarbons Carbonyl Chemistry Heterocyclic Chemistry Bridged Rings Kinetic and Thermodynamic Control Stereochemistry Carbohydrates Amino Acids and Proteins Organometallic Chemistry Pericyclic Reactions  12. PHARMACEUTICAL CHEMISTRY TOPIC NAME Pharmaceutical Impurities Monographs Isotopes	LECTURE		REVISION		TEST
Protection and Deprotection of Groups Aromaticity & aromatic chemistry Different aromatic classes of compounds Polycyclic Aromatic Hydrocarbons Carbonyl Chemistry Heterocyclic Chemistry Bridged Rings Kinetic and Thermodynamic Control Stereochemistry Carbohydrates Amino Acids and Proteins Organometallic Chemistry Pericyclic Reactions  12. PHARMACEUTICAL CHEMISTRY TOPIC NAME Pharmaceutical Impurities Monographs	LECTURE	PRACTICE		PYQS	

Various classes of Therapeutic Agents					
Different classes of therapeutic drugs					
13. PHARMACEUTICAL ANALYSIS					
TOPIC NAME	LECTURE	PRACTICE	REVISION	PYQS	TEST
Importance of quality control in pharmacy					
Acid-Base Titrations					
Non-Aqueous Titrations					
Oxidation-Reduction Titrations					
Precipitation Titrations					
Complexometric Titrations					
Gravimetry					
Extraction techniques					
Miscellaneous methods of analysis					è, 🔲
Calibration					
General principles of spectroscopy			WA.		
UV-Visible Spectroscopy		WT 1			
Spectrofluorimetry					
Flame photometry & atomic absorption spectrometry	9714				
Infrared (IR) Spectroscopy					
Proton Nuclear Magnetic Resonance (NMR) Spectroscopy					
Mass Spectrometry					
Polarography			Th		
Nephelometry & Turbidimetry					
Chromatography					
Miscellaneous					
14. PHYSICAL CHEMISTRY					
TOPIC NAME	LECTURE	PRACTICE	REVISION	PYQS	TES
Composition and Physical States of Matter				/ 🗌	
Colligative Properties					
Thermodynamics					
Chemical Equilibria					
Phase Rule					
Refractive Index					
Solutions					
Electrochemistry Ionic Equilibrium					

TOPIC NAME	LECTURE	PRACTICE	REVISION	PYQS	TEST
Cell					
Carbohydrates					
Proteins					
Lipids					
Vitamins					
Biological oxidations & reductions					
Enzymes		*			
Nucleic Acids			2. D		
Hereditary diseases					
			100		
16. MICROBIOLOGY				<u> </u>	
TOPIC NAME	LECTURE	PRACTICE	REVISION	PYQS	TEST
Introduction to Microbiology					
Microscopy and Staining Technique					
Biology of Microorganisms					
Fungi and Viruses	(E)		WA.	7	
Aseptic Technique					
Sterilization and Disinfection					
Microbial Spoilage	9 - 4				
Immunology and Health					
Vaccines and Sera					
Microbial Assay					
		1/4 //		•	- 19
17. BIOTECHNOLOGY			1 1		
TOPIC NAME	LECTURE	PRACTICE	REVISION	PYQS	TEST
Plant Cell and Tissue Culture					
Animal Cell Culture	7				
Fermentation Technology and Industrial Microbiology					/ 🗆
Recombinant DNA Technology					
Process and Applications					
Biotechnology Derived Products				7	
Proteomics					
Formulation of Proteins and Peptides					
		- 8	/		
18. PHARMACEUTICAL JURISPRUDENCE					
TOPIC NAME	LECTURE	PRACTICE	REVISION	PYQS	TEST
Standard Institutions and Regulatory Authorities					
Pharmacy Act, 1948					
Drugs and Cosmetics Act, 1940					
Narcotic Drugs and Psychotropic Substances Act					
Drugs and Magic Remedies Act, 1954					
Medicinal and Toilet Preparations Act, 1955					

Medical Termination of Pregnancy Act, 1970			
Consumer Protection Act			
Intellectual Property Rights			

#### 19. PHARMACEUTICAL MANAGEMENT

TOPIC NAME	LECTURE	PRACTICE	REVISION	PYQS	TEST
Introduction to Management					
Planning and Forecasting		1 D 33.A.			
Organization					
Research Management			D <sub>ba</sub>		
Inventory Management					
Communication					
Marketing Research					
Leadership and Motivation					
Human Resource and Development (HRD)					
GATT					
World Trade Organization (WTO) and Trade Related Intellectual Property Rights (TRIPS)					

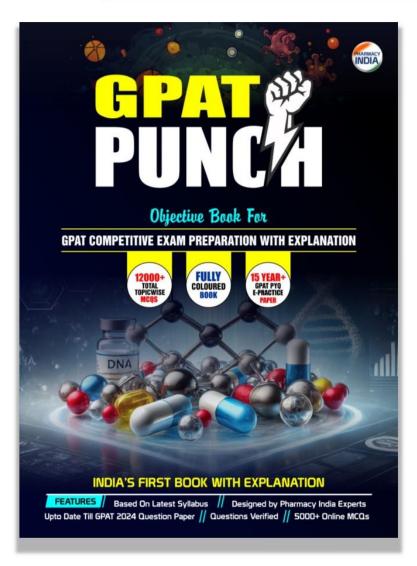


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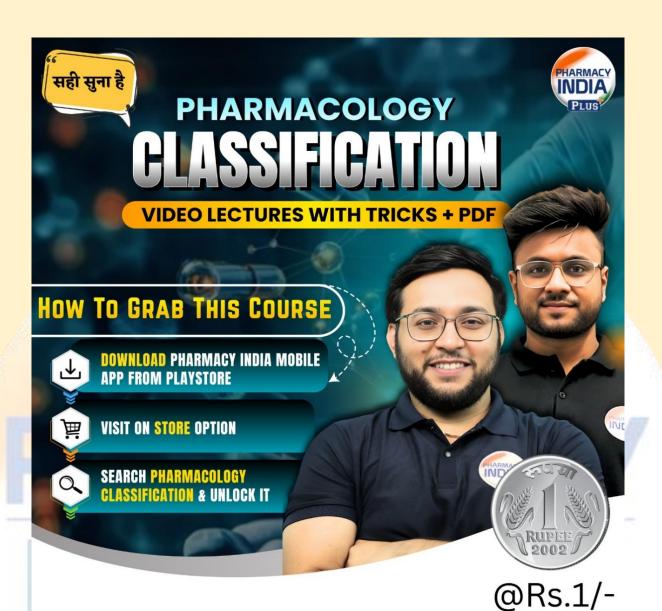
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