

**SUBJECT WISE SOME IMPORTANT TOPICS  
WISE SYLLABUS FOR GPAT (CRASH COURSE)  
2023**

SL.NO	CHAPTERS	TOPICS	TIME PERIOD
<b>1</b>	<b>Pharmacology 22 Questions</b>	Drug classification, Mechanism of action, Adverse effect- related with a name like Gray baby syndrome, etc (Mostly you can follow: Anticancer, Antibiotics, Antifungal, Antiprotozoal, Diuretics, CNS depression, Antihistamines, Cardiovascular Drugs)	AS PER REQUIREMENT TO COMPLETE IMPORTANT TOPICS
			<b>20/01/23</b>
<b>2</b>	<b>Medicinal Chemistry 10 Questions</b>	SAR (Mostly Diuretics, BZDs, Morphine); Drug classification of (Sedative hypnotics, Antibiotics, Antimalarial, Morphine, Antihistaminic); Synthesis ( Thiazide Diuretics, Phenothiazine, Quinine, BZDS, Antihistaminic ) IUPAC Name of Steroidal drugs.	AS PER REQUIREMENT TO COMPLETE IMPORTANT TOPICS
			<b>25/01/23</b>
<b>3</b>	<b>Organic Chemistry 8 Questions</b>	IUPAC (Bicyclic, Spiro, and heterocyclic compounds), Optical and Geometrical isomerism. R, S / E Z, /Conformational isomerism, Newman and sawhorse projection, Name reaction (Diels- Alder Reaction, Knoevenagel, Aldol Condensation, Baeyer-Veliger, Claisen Condensation, Cannizzaro reaction, Reimer Thiemann, Pericyclic reaction.	AS PER REQUIREMENT TO COMPLETE IMPORTANT TOPICS
			<b>30/01/23</b>
<b>4</b>	<b>Pharmacognosy 7 Questions</b>	Chemical test (glycoside and alkaloids most important), Microscopic Character (Senna, Digitalis, Aloe, Clove, Cardamom, Cinnamon, Belladonna, Vinca); Biosynthesis Pathway, Tissue Culture, Sources of Drugs; Classification of Drugs; Chemical constituents & use of Ergot, Nix Vomica, Opium, Belladonna, Clove, Kurchi, Vasaka, Digitalis, Senna, Aloe, Clove, Cardamom, Cassia, Cinnamon, Ispaghula, Asafoetida, Peru & Tolu	AS PER REQUIREMENT TO COMPLETE IMPORTANT TOPICS

		balsam, Myrobalan, Arjuna, Pale & black catechu.	<b>04/02/23</b>
<b>5</b>	<b>Jurisprudence 3 Questions</b>	Pharmacy acts Years only, Drug Schedule, DTAB Members	AS PER REQUIREMENT TO COMPLETE IMPORTANT TOPICS
			<b>09/02/23</b>
<b>6</b>	<b>Analytical Chemistry 6 Questions</b>	Woodward-Fieser Rule, Lambert's Law-Beer's law, UV Absorption Band & shift, IR( Sampling technique, molecular vibration, Vibration range for different grs); NMR (No of signal calculation, Chemical shift), Mass Spectroscopy (types of peak, use) Gas chromatography (Detectors, Use), HPLC ( Instrumentation, use);	AS PER REQUIREMENT TO COMPLETE IMPORTANT TOPICS
			<b>14/02/23</b>
<b>7</b>	<b>Pharmaceutics 16 Questions</b>	Tablet ( Mostly Coating, instrument, and excipients), Capsule, Parenterals, Rheology (Nonnewtonian's flow) HLB Values, Surfactant, Carr's index, Hausner ratio, Angle of repose, Emulsion, Fick's law, Zeta Potentials, Preservatives, artificial sweetener dose calculation sums elf-life and half-life, vol of distribution & plasma conc, rate of clearance, one and two-compartment model sums, AUC- Dose fraction -as i.v or oral; Bioavailability calculation.	AS PER REQUIREMENT TO COMPLETE IMPORTANT TOPICS
			<b>19/02/23</b>
<b>8</b>	<b>Physical Chemistry 3 Questions</b>	Chemical kinetics sums, Solution (molality, molarity Normality, and neutralization sums), Thermodynamics. Isotonic sums.	AS PER REQUIREMENT TO COMPLETE IMPORTANT TOPICS
			<b>24/02/23</b>