

S. No	Topic
1	<p>General pharmacology</p> <ul style="list-style-type: none"> • Interpret the different pharmacokinetic patterns, their clinical significance and factors affecting these parameters. • Correlate the concept of molecular mechanistic to the therapeutics. • Identify the genetic principles in drug disposition
2	<p>Autonomic Nervous System (ANS)</p> <ul style="list-style-type: none"> • Correlate the physiology of autonomic receptors with the therapeutic application
3	<p>Central Nervous System (CNS)</p> <ul style="list-style-type: none"> • Correlate the patho-physiology of psychiatric illnesses to their management • Differentiate between different pharmacological agents (LA, GA, opioids, NSAIDs) used in the pain management • Justify the use of antiparkinsonian drugs correlating it to the underlying pathophysiology of the disease • Analyze the effects of anti-epileptic drugs in relation to neuro-excitatory illnesses • Strategize the management of migraine in accordance with the underlying disease mechanism • Correlate the effects of substances of abuse (alcohol, opioids, heroin) on body to its plan for aversion therapy • Critique on the pharmacological Effects of sedative/Hypnotics
4	<p>Cardiovascular System (CVS)/Diuretics</p> <ul style="list-style-type: none"> • Relate the pathophysiology of heart and vessels to its treatment modalities • Recollect the anatomical physiological basis of renal system. Differentiate therapeutic application of different diuretics
5	<p>Chemotherapy</p> <ul style="list-style-type: none"> • Justify the treatment modalities for various microbes (bacteria, viruses, helminths, parasites) according to mode of action, resistance patterns and regional current practices • Appraise the principles of cancer chemotherapy in relation to its current therapeutic modalities

Pharmacology

6	<p>Endocrinology</p> <ul style="list-style-type: none"> • Correlate the pathophysiological basis of pituitary, thyroid and adrenal hormones with their therapeutics. • Correlate types of diabetes mellitus to their different treatment modalities • Justify the clinical use of sex hormones in relation to reproductive physiology • Correlate the patho-physiological basis of osteoporosis to its pharmacological management.
7	<p>Blood</p> <p>Justify the management plan of anemia, coagulation disorders and dyslipidemias by correlating it to the patho-physiological basis of disease</p>
8	<p>Respiration</p> <p>Justify the management plan of obstructive pulmonary disorders (Asthma, COPD).</p>
9	<p>Gastrointestinal System (GIT)</p> <p>Justify the management plan of common disorders of gastrointestinal tract (peptic ulcer, vomiting, constipation, gastropathies, diarrhea).</p>
10	<p>Misc topics</p> <p>Outline the essential pharmacological principles of toxicology.</p>
11	<ul style="list-style-type: none"> • Research Methodology • Biostatistics/Analytical • Medical Writing/ Bioethics