

SNS COLLEGE OF PHARMACY AND HEALTH SCIENCES



UNIT 1, CHP-2

COURSE NAME: MEDICINAL BIOCHEMISTRY

TOPIC: ENZYME

Q.No	Marks	Question	Unit / Topic	PCI-B.Pharm Syllabus Mapping	Exam Source & Year*	Bloom's Level
1	10	Define enzymes. Classify enzymes with examples and explain their general properties.	Enzyme Basics	Enzyme Classification & Properties	PCI 2019, TNMGRU 2021	Understand → Analyze
2	10	Explain the mechanism of enzyme action with suitable theories and diagrams.	Enzyme Kinetics	Mechanism of Enzyme Action	PCI 2020, GPAT 2019	Understand → Apply
3	10	Describe Michaelis–Menten equation and explain factors affecting enzyme activity.	Enzyme Kinetics	Enzyme Kinetics	GPAT 2020, NIPER 2019	Analyze
4	10	Explain enzyme inhibition with classification and examples.	Enzyme Inhibition	Enzyme Regulation	PCI 2021, GPAT 2018	Understand → Analyze
5	10	Describe cofactors, coenzymes and isoenzymes with biomedical significance.	Enzyme Components	Enzyme Components	TNMGRU 2022, MRB 2023	Understand
6	10	Write a detailed note on diagnostic and therapeutic applications of enzymes.	Clinical Enzymology	Clinical Biochemistry	PCI 2022, NIPER 2021	Analyze → Evaluate
7	10	Explain enzyme specificity and factors affecting specificity	Enzyme Properties	Enzyme Specificity	GPAT 2017, PCI 2020	Understand

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		with examples.				
8	10	Describe regulation of enzyme activity by activators, inhibitors and feedback inhibition.	Enzyme Regulation	Metabolic Regulation	NIPER 2020, GPAT 2021	Analyze
9	10	Explain the role of enzymes in drug metabolism and biotransformation.	Applied Enzymology	Drug Metabolism	PCI 2023, GPAT 2022	Apply → Analyze
10	10	Write a detailed account on immobilized enzymes and their pharmaceutical applications.	Applied Enzymes	Industrial & Pharmaceutical Enzymes	NIPER 2022, GPAT 2021	Analyze → Evaluate
11	5	Define enzyme and mention two characteristics.	Enzyme Basics	Introduction to Enzymes	PCI 2019	Remember
12	5	Classify enzymes according to IUB classification.	Enzyme Classification	Enzyme Classification	TNMGRU 2020	Remember
13	5	Write the lock and key theory of enzyme action.	Mechanism	Enzyme Action	PCI 2021	Understand
14	5	Define Michaelis constant (K_m) and its significance.	Enzyme Kinetics	Enzyme Kinetics	GPAT 2018	Understand
15	5	List factors affecting enzyme activity.	Enzyme Kinetics	Factors Affecting Enzymes	PCI 2020	Remember
16	5	Define enzyme inhibition. Give two examples.	Enzyme Inhibition	Enzyme Regulation	RRB 2021	Remember
17	5	Differentiate between competitive and non-competitive inhibition.	Enzyme Inhibition	Enzyme Inhibition	GPAT 2019	Analyze
18	5	Define cofactors and coenzymes with examples.	Enzyme Components	Cofactors & Coenzymes	PCI 2018	Understand
19	5	What are isoenzymes?	Enzyme	Isoenzymes	MRB 2022	Understand

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		Mention their significance.	Components			
20	5	Write clinical importance of enzymes.	Clinical E			