

# SNS COLLEGE OF PHARMACY AND HEALTH SCIENCES



SNS COLLEGE OF PHARMACY AND HEALTH SCIENCES  
BP 604 T. BIOPHARMACEUTICS AND PHARMACOKINETICS

(Theory)

UNIT I

TOPIC: Introduction to Biopharmaceutics, Absorption, Distribution

2 MARKS

S.No	Questions	Mapping from TNMGRMU / GPAT / DI / Interview	Bloom's Taxonomy
1	Define Biopharmaceutics.	MGR Univ PYQ 2018; Viva	Remembering
2	What is drug absorption?	GPAT 2019; Univ Exam	Understanding
3	List the different mechanisms of drug absorption through GIT.	Pharmacist Exam; Viva	Applying
4	Define passive diffusion.	MGR Univ PYQ 2020; GPAT 2017	Remembering
5	What is active transport?	MGR Univ PYQ 2021; Viva	Remembering
6	Define facilitated diffusion.	MGR Univ PYQ 2022; Pharmacist Exam	Remembering
7	What is pinocytosis?	GPAT 2018; Viva	Understanding
8	Mention any two factors affecting drug absorption through GIT.	MGR Univ PYQ 2019; GPAT 2020	Remembering
9	Define bioavailability.	MGR Univ PYQ 2021; Interview	Remembering
10	What is first-pass metabolism?	MGR Univ PYQ 2020; Lab Viva	Understanding
11	Define drug distribution.	MGR Univ PYQ 2018; GPAT 2019	Remembering
12	What is tissue permeability?	MGR Univ PYQ 2021; Pharmacist Exam	Understanding
13	Define apparent volume of distribution (Vd).	GPAT 2018; Interview	Understanding
14	What is plasma protein binding?	MGR Univ PYQ 2020; Viva	Understanding
15	Name the major plasma proteins involved in drug binding.	MGR Univ PYQ 2022; GPAT 2020	Remembering
16	What is tissue protein binding?	GPAT 2017; Pharmacist Exam	Remembering
17	Mention any two factors affecting protein-drug binding.	MGR Univ PYQ 2021; Viva	Remembering
18	Define kinetics of protein binding.	MGR Univ PYQ 2019; Interview	Understanding
19	What is free drug concentration?	GPAT 2020; Viva	Remembering
20	Mention the clinical significance of protein binding of drugs.	MGR Univ PYQ 2022; GPAT 2018	Remembering

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## 5 MARKS

S.No	Questions	Mapping from TNMGRMU / GPAT / DI / Interview	Bloom's Taxonomy
1	Explain the scope and importance of Biopharmaceutics.	MGR Univ PYQ 2021; Viva	Applying
2	Describe the mechanisms of drug absorption through GIT.	MGR Univ PYQ 2022; Pharmacist Exam	Applying
3	Explain the factors influencing drug absorption through GIT.	MGR Univ PYQ 2020; GPAT 2017	Understanding
4	Write a note on absorption of drugs from non-per oral extravascular routes.	MGR Univ PYQ 2019; Viva	Understanding
5	Explain tissue permeability of drugs.	MGR Univ PYQ 2021; Lab Viva	Applying
6	Describe plasma protein binding of drugs.	MGR Univ PYQ 2022; Interview	Understanding
7	Explain tissue protein binding and its significance.	GPAT 2020; Pharmacist Exam	Analyzing
8	Discuss the factors affecting protein-drug binding.	MGR Univ PYQ 2020; GPAT 2018	Applying
9	Explain the kinetics of protein binding.	GPAT 2020; Pharmacist Exam	Analyzing
10	Write a short note on clinical significance of protein binding of drugs.	MGR Univ PYQ 2020; GPAT 2018	Applying

## 10 MARKS

S.No	Questions	Mapping from TNMGRMU / GPAT / DI / Interview	Bloom's Taxonomy
1	Define Biopharmaceutics and discuss in detail the factors affecting drug absorption through GIT.	MGR Univ PYQ 2021; Viva	Applying
2	Explain in detail the various mechanisms of drug absorption through gastrointestinal tract with suitable examples.	MGR Univ PYQ 2022; Pharmacist Exam	Applying
3	Discuss the absorption of drugs from non-per oral extravascular routes in detail.	MGR Univ PYQ 2020; GPAT 2017	Understanding
4	Explain the process of drug distribution and factors affecting tissue permeability of	MGR Univ PYQ 2019; Viva	Understanding

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	drugs.		
5	Define apparent volume of distribution and discuss its significance in pharmacokinetics.	MGR Univ PYQ 2021; Lab Viva	Applying
6	Describe plasma protein binding of drugs, factors affecting it, and its clinical significance.	MGR Univ PYQ 2022; Interview	Understanding
7	Explain tissue protein binding of drugs with suitable examples.	GPAT 2020; Pharmacist Exam	Analyzing
8	Discuss the kinetics of protein-drug binding and factors influencing it.	MGR Univ PYQ 2020; GPAT 2018	Applying
9	Elaborate the clinical significance of protein binding in drug therapy and drug interactions.	GPAT 2020; Pharmacist Exam	Analyzing
10	Write detailed notes on drug distribution, protein binding, and apparent volume of distribution.	MGR Univ PYQ 2020; GPAT 2018	Applying