

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

School of Medical and Allied Sciences

Master of Pharmacy in Pharmacology

Mid Term Examination - May 2024

Duration : 90 Minutes

Max Marks : 30

Sem II - MPL203T - Principles Drug DiscoveryGeneral Instructions*Answer to the specific question asked**Draw neat, labelled diagrams wherever necessary**Approved data hand books are allowed subject to verification by the Invigilator*

- 1) What are the key methods used in target identification in drug discovery? K1 (2)
 - 2) Explain the role of transgenic animals in target validation? K2 (2)
 - 3) Outline and contrast the advantages and limitations of combinatorial chemistry and high throughput screening in lead identification. K2 (2)
 - 4) List out the primary objectives of lead optimization in the drug development pipeline? K1 (2)
 - 5) Demonstrate on the levels of protein structure K2 (2)
 - 6) Utilize target identification in the context of drug discovery and provide an example of a successful target identification process. K3 (5)
 - 7) Function out how transgenic animals have been employed in preclinical studies to assess the validity of potential drug targets. K4 (5)
- OR**
- Function out the importance of assay development in hit identification. K4 (5)
 - 8) Determine the key criteria for selecting a lead compound, and how is optimization carried out to enhance its efficacy and safety? K5 (10)
- OR**
- Determine the potential future developments in technology integration and their impact on the efficiency and success rate of drug discovery efforts. K5 (10)