GALGOTIAS UNIVERSITY

ADMISSION NUMBER												

School of Basic Sciences

Master of Science in Chemistry
Mid Term Examination - Mar 2024

Duration : 90 Minutes
Max Marks : 50

Sem IV - MSCH6003 - Chemistry of Natural Products and Retrosynthesis

General 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)	Explain the functions of alkaloids in plants.	K2	(2)
2)	What is the structure of morphine	K1	(3)
3)	Explain the medicinal importance alkaloids.	K2	(4)
4)	Illustrate the exception of isoprene rule.	K2	(6)
5)	Illustrate the soxhlet extraction for isolation of terpenoids.	K3	(6)
6)	Identify the synthetic steps for the formation of thebaine.	K3	(9)
7)	Discuss the biosynthesis of morphine.	K4	(8)
8)	Analyze the stereochemistry involved in quinine.	K4	(12)
	OR		
	Analyze the reactions to determine the presence of oxygen containing functional group in terpenoids.	K4	(12)