Exam Date & Time: 29-Mar-2021 (01:30 PM - 04:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal Academy of Higher Education, Manipal MPharm Theory End-Semester Examinations.

Phytochemistry [PCO-MPG103T - S2]

	Marks: 75	Duration: 180	mins.
SECTION - A			
	Answer all the questions. Answer the following (10 marks $x = 50$ marks)		
	1)	Describe various phases of clinical trial for natural products.	(10)
	2)	Elaborate on Super Critical Fluid and Microwave assisted method of extraction.	(10)
	3)	Give the spectral characteristics of Menthol and Nicotine.	(10)
	4)	Explain briefly HPTLC technique and discuss the role of HPTLC in standardization of herbal products.	(10)
	5)	Describe Shikimic acid and Isoprenoid pathways in the biosynthesis of secondary metabolites.	(10)
		SECTION - B	
Answer all the questions.			
	Answer the following (5 marks $x = 25$ marks)		
	6)	Explain the detail method of isolation of Quercetin and Sennoside.	(5)
	7)	Enumerate various applications of LCMS.	(5)
	8)	Give the spectral characteristics of Luteolin.	(5)
	9)	Write a brief note on pharmacophore based drug design.	(5)
	10)	Give a detailed account on TLC technique for the separation of phytoconstituents.	(5)
	End		