Question Paper

Exam Date & Time: 18-Jan-2021 (09:30 AM - 12:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Pharmacognosy and Phytochemistry II [PCO-BP504T - S3]

Marks: 75	Filatinacognosy and Phytochemistry ii [POO-BP-3041	-	n: 180 mins.
y T	I Multiple Choice Questions (MCQs)		
Answer all ti	ne questions.	Section Dura	ation: 30 mins
1)	120 alamant wated in terrary to abrillians in a		(1)
1)	13C element used in tracer technique is a		(1)
	unstable isotope stable isotope supercritical fluid scintillator	© 3	
2)	Following is the E-isomer of citral		(1)
2)			(-/
	Neral Citral B Geranial None of the above		×
3)	Chorismic acid in presence of anthranilate synthase give rise to		(1)
	Tyrosine Tryptophan Prephenic acid Phenyl alanine		
4)	The reduced intermediate between anthraquinone and anthrone is		(1)
	Oxanthrone Anthranol Dianthrone Dianthranol		
5)	Which one of the following is called Curcumin II		(1)
	Dimethoxycurcumin bis-demethoxycurcumin demethoxycurcumin Curcumin		
6)	Presumed precursors are used in the following tracer technique		(1)
	Competitive feeding Sequential analysis Precursor product sequence Mutant strains		
7)	Guignard's test is used for the identification of		(1)
	Saponin glycosides Anthraquinone glycosides Cyanogenetic glycosides Flavonoids		*

17)	Benzyl isoquinoline alkaloid of Opium is	(1)
	Morphine Codeine Thebaine Papayerine	
18)	Solubility of the sennoside is optimum in water missible organic solvents having water content	(1)
	50% 30% 75% 90%	
19)	Digitoxin contain	(1)
	5 membered saturated lactone ring 6 membered unsaturated lactone ring 5-membered unsaturated lactone ring 6 membered saturated lactone ring	
20)	Thin Layer Chromatography is an example for	(1)
	Partition chromatography Counter current chromatography Adsorption chromatography Gel filtration chromatography	
	II Long Answers	
Answer al	I the questions.	
1)	a. Elaborate on chemistry and general method of isolation of Glycosides (3+2)b. Give the source, family, active constituents and uses of Bitter almond and Digitalis	(10)
2)	Describe the column chromatography and paper chromatography for the separation and identification of the phytoconstituents	(10)
	III Short Answers	
Answer all	the questions.	
1)	Explain the industrial production, estimation and utilization of Caffeine	(5)
2)	Describe competitive feeding and autoradiography	(5)
3)	Give the biological source and utilization of a) Forskolin b) Artemisin	(5)
1)	Explain Senna with reference to source and family, morphology, chemical constituents and uses(1+2+1+1)	
5)	Give the biological source, explain the isolation, identification and analysis of Quinine	(5)
6)	Explain Nuclear Magnetic Resonance Spectroscopy for the identification and characterization of phytoconstituents.	
")	What are Tannins? Classify them with examples. Give the tests for their identification (1+2+2)	(5)

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