PCO-BP504T

Exam Date & Time: 04-Jan-2022 (10:00 AM - 01:00 PM)



# MANIPAL ACADEMY OF HIGHER EDUCATION

Pharmacognosy and Phytochemistry II [PCO-BP504T]

### Marks: 75

2)

3)

4)

5)

6)

### **Duration: 180 mins.**

I Multiple Choice Questions (MCQs)

### Answer all the questions.

Section Duration: 30 mins

1) Shikimic acid 3-phosphate condenses with phosphoenol pyruvate with elimination of water leads to the formation of

1)	Prephenic acid			imic acid phosphat				Phenyl pyruvic acid		4)	Chorismic acid
Cit	ral-B is		1 1			11	I		1		
1)	Neral	2) G	eranial	3)	Geraniol	4)	Ci	tronellal			
	synthesis of	-	2) Stero		er Dimethy 3) Carote	•		ophosphate serve			basis for the
Sei	nnoside A an	d B a	re dimeric	glycosid	les of						
1)	Aloe-emod	in	2) Rhe	in .	3) Emodir	1	4)	Chrysophanol			
Fo	llowing is a c	liaryl	neptanoid	compour	nd						
	Quinine	2)	Reserpin	e 3)	) Taxol	4)	Cu	rcumin			
1)	Quinnie	/									
Ľ	e of the carb	,	a stable iso	otope							

9)

10)

11)

12)

13)

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(1)

(1)

7)	Catechol on treatment with hot acids, C-C bonds are broken and release monomers of
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1) Car	rotenoids	2)	Anthocyanidins		3)	Chlorogenic acid		4)	Lignans	
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### 8) Rutin on hydrolysis yields

1)	Quercetir rhamnose galactose	and			2)	Querco rhamn glucos	ose ar	nd		3)	rha	ercet imno bino	se an	d		4)	Querc rhamn digitoz	ose and	
Fol	lowing ph	ytoco	onsti	tuent	ts is	used a	s a mi	ner	al ice								•		
1)	Atropine		2)	Senn	nosi	de	3)	Ci	tral		4)	) Me	enthc	01					
Au	toradiogra	phy is	s a t	echni	ique	e used f	for the	loc	ation	of									
1)	Unstable	isotoj	pes		2)	Stable	isoto	pes		3)	Pro	tons		4)	Neu	tron	s		
Alc	oinoside A	is			l														
1)	Chrysolo: O- glucos					Chryso Rhamn			)-	3			aloin- icosio			4)		loin-3- amoside	
Тах	col is used	to tre	eat																
1)	Hyperten	sion		2)	Ar	thritis		3)	Obes	ity		4)	Ca	ncer					
Cat	ffeine ansv	vers																	
Ca																			

## 14) Dihydro indole part of Viblastine is called as

	1							_	(1)
1) Cathara	nthine	2)	Vindoline	3)	Vinorelbine	4)	Leurocristine		(1)

# 15) Gitaloxigenin differs at 16th position from Digitoxigenin by having

1)	Formyl group	2)	Hydroxyl group		3)	Methyl group		4)	Acetyl group	
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16)	Saponins causes haemolysis of RBC due to the presence of										
	1)Sterols2)Proteins3)Carbohydrates4)Carotenoids	(1)									
17)	Cleavage of a bond between 7 and 8 position of cyclopentanopyran ring gives rise to a subclass known										
- )	as										
	1)Secoiridoids2)Enterodiol3)Enterolactone4)Naphthaquinones	(1)									
18)	Solubility of the sennoside is optimum in water missible organic solvents having water content										
	1) 10% 2) 20% 3) 30% 4) 40%	(1)									
19)	Which phytoconstituents is used to treat advanced form of Kaposi's sarcoma										
17)		(1)									
	1) Forskolin 2) Taxol 3) Podophyllotoxin 4) Quinine	(1)									
20)	Which of the following wave number is considered as mid IR										
)											
	4000 cm -1 to 4000 cm -1 to 4000 cm -1 to 4000 cm -1 to	(1)									
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$										
	II Long Answers										
Answer all	the questions.										
1)	<ul><li>A. What are Alkaloids? Describe the general properties and nitrogen of alkaloids (2+2+1).</li><li>B. Give the source, family, active constituents, uses of Rauwolfia and Opium (2.5+2.5)</li></ul>										
2)	Briefly describe various spectroscopic methods of analysis of phytoconstituents										
	III Short Answers										
Answer all	the questions.										
1)	Explain the industrial production, estimation and utilization of Caffeine	(5)									
2)	Give the Shikimic acid pathway and its significance	(5)									
		(J)									

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3)	Give the biological source and utilization of a) Forskolin b) Vincristine and vinblastine.	(5)
4)	What are Cardiac glycosides? Give their chemistry and two identification tests (1+2+2)	(5)
5)	Give the biological source, explain the isolation, identification and analysis of Citral	(5)
6)	Explain Droplet Counter Current Chromatography with neat labelled diagram as separation technique for the phytoconstituents	(5)
7)	Give an account of Phenyl propanoids and flavonoids with their identification test (4+1)	(5)

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