Duration: 3 Hours Total marks: 75 N.B.: 1. All questions are compulsory 2. Figures to right indicate full marks Choose appropriate option for following multiple choice-based questions. Q. I Dimethyl allyl pyrophosphate is an isomer of Farnesyl pyrophosphate a. Isopentenyl pyrophosphate b. Squalene c. Mevalonic acid d. is an unorganised drug 2 Diosgenin a. Reserpine b. c. Aloes d. Digitalis Following compound is from the chemical class of ΗQ ΗŌ Å Picroside Forskolin Taxine > Gentiopicrin Pentacyclic triterpenoid class is represented by which of the following drug? 1 Opium Artemisia Vinca-Liqourice Asafoetida belongs to family 1 Scrophulariaceae Papaveraceaa Rutaceae Umbelliferae 1 Heroin is also called as Diacetylmorphine Methylmorphine Papaverine Acetylmorphine

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7	Vittae are present in Foeniculum vulgare Pinus spp Eugenia caryophyllus Mentha spicata Basic nucleus of eugenol is Alcoholic Phenolic Ether Propanol Catechu respond positive to test Dragendroff's test Match stick test Murexide Meyers test. is also called as acid resin Colophony Benzoin Guggul Myrrh	1
a.	Foeniculum vulgare	_
b.	Pinus spn	1
c.	Fugenia caryonhyllus	Y
d.	Montha spicata	
u.	Menna spicala	
8	Vittae are present in Foeniculum vulgare Pinus spp Eugenia caryophyllus Mentha spicata Basic nucleus of eugenol is Alcoholic Phenolic Ether Propanol Catechu respond positive to test Dragendroff's test Match stick test Murexide Meyers test is also called as acid resin Colophony Benzoin Guggul Myrrh Liebermann Burchard test is positive for Gugonl	1
0	Alasholia	ŀ
a.	Disconsider A A A A A A A A A A A A A A A A A A A	É
b.	File of the state	7
c.	Euler 20 A A A	
d.	Propanol 6 A A A A A A A A A A A A A A A A A A	
		_
9	Catechu respond positive totest	ļ
a.	Dragendroff's test	V
b.	Match stick test	ľ
c.	Murexide A A A A A A A A A A A A A A A A A A A	
d. c	Meyers test	
T	Catechu respond positive totest Dragendroff's test Match stick test Murexide Meyers test	
10	is also called as acid resin	1
a.	Colophony Benzoin Guggul	ナ
b.	Benzoin S	
c.	Guggul	
d.	Benzoin Guggul Myrrh	
4		
11 a.	Liebermann Burchard test is positive for	1
a.	Liebermann Burchard test is positive for Guggul Vinca Rauwolfia Fennel	
b.	Vinca Rauwolfia	
c.	Rauwolfia	
d.	Fennel Fennel	
12	Rauwolfia Fennel Cyanogenetic glycosides are present in Senna Aloe	1
a.	Senna S	
b.	Aloe	
c	Digitalis 2 2 2	
d.	Bitter almond	
90 r		
13	Choose the correct statement for Senna glycosides	1
a.	Sennoside A,B, C,D are Homo dianthrone	
b.	Sennoside A,B, C,D are Hetero dianthrone	
c.	Sennoside C& D are Hetero dianthrone	
d.	Sennoside C& D are Homo dianthrone	
1	A ST ST	
14	is laevorotatory & antimalarial in nature	1
a.	Quinine	_
b.	Quinidine	
c. 9	Atropine	
d.	Ephedrine	

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15	is the most appropriate method of analysis for menthol HPLC Gas chromatography Titration	1
a.	HPLC TO THE STATE OF THE STATE	
b.	Gas chromatography	
c.	Titration 4	
d.	Gel electrophoresis	3
16	Irridoids are	1
a.	Bitter in taste and contain condensed cyclopentane with pyran	
b.	Sweet in taste and contain condensed cyclopentane with pyran	2
c.	Bitter in taste and contain condensed cyclopentane with indole	a T
d.	Sweet in taste and contain condensed cyclopentane with indole	F
17	Gitaloxin is characterized by the presence of	1
a.	OH group at 16 position	•
b.	Formyl group at 17 position	کے
c.	Formyl group at 16 position	3
d.	OH group at 17 position	
0		,,,
18	Difference between digoxin and digitoxin is that digoxin has	1
a.	Glucose	7
b.	Digitoxose	7
c.	Acetyl- digitoxose	0,
d.	Arabinose	Y'
19	Enfleurage is the method used for the extraction of	1
46'	Alkaloids	1
a. b.	Glycosides	
c.	Volatile oils	
d.	Tannins T	
Ô		
20	Most appropriate method for the separation of proteins is	1
a.	PrepTLC	
b.	Electrophoresis	
c.	HPTLC 2	
d. 4	HPLC 2	
TT	Anguary TWO out of THREE	2014
. II A		20M 10M
,	a. Write a note on biological source, chemical constituents, chemical tests & uses of Myrrh.	101/1
7	b. Discuss various methods for introduction of labelled compound in the	
	biological system. Write a note on precursor product sequence.	
2		10M
4	a. Super critical fluid extraction	
81	b. Microwave assisted extraction	
3		10M
,	following.	
2	a. Artemisinin	
7,	b. Taxel	

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	Taper / Subject Code. 00114 / Tharmacognosy & Thytochemistry- II	1
Q.II B.	Answer any SEVEN out of NINE 35 M	
1	Write a note on aromatic amino acid pathway mention structure and name of the enzymes involved. 5 M	q
2 3	Write a note on various techniques used to study biosynthetic pathways. 5 M Discuss source, chemistry & chemical tests for Rauwolfia alkaloids. 5 M	9
4 5	Write source, chemistry & uses of steroidal saponin containing drug. 5 M	
6	Give the source, phytochemistry and uses of Gentian. Discuss the following phytoconstituents with respect to their isolation and identification. a. Citral	3
	a. Citral b. Rutin	Y
7	Write a note on the analysis and uses of following phytoconstituents a. Atropine 5 M	
8	b. Caffeine Write a note on various chromatographic techniques used for identification 5 M	
9 q	of drugs. Discuss principle and applications of UV spectroscopy 5 M	
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