Á	Paper / Subject Code: 66114 / Pharmacognosy & Phytochemistry- II
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2673	The state of the s
	(3 hours) [Total marks: 75]
NR.	All questions are compulsory
	Figures to right indicate full marks
D 12	Tigues to right indicate full marks
Q. I	Choose appropriate option for following multiple choice-based questions. 20
	Which of the following is not a precursor in shikimic acid pathway.
69° 10 ^T	a Prephenic acid b Mevalonic acid
of of	c Chorismic acid
	d Quinic acid
29	Shinoda, Alkaline reagent and Zinc HCl test are used to identify
	a Lignans
3 1 1 1	b Alkaloids
	c Flavonoids d Glycosides
3	Which of the following is the source of Rutin?
(8) 83 ^T	a Ruta graveolens b Podophyllum emodi
	c Camellia sinensis
	d Mentha spicata
(2)	Diosgenin is used as raw material for synthesis of
	a Corticosteroids
	b Paracetamol c Acyclovir
	b Paracetamol c Acyclovir d Insulin
5 701 5	Which of the following is the source of fennel? a Foeniculum vulgare b Coriandrum sativum c Mentha Piperita d Cinnamomum cassia
	a Foeniculum vulgare b Coriandrum sativum
26th 200	c Mentha Pinerita
6	Which of the following drug consist of phenyl propanoidal constituent in volatile oil? a Foeniculum vulgare b Coriandrum sativum c Mentha spicata d Eugenia caryophyllus
	volatile oil?
	a Foeniculum vulgare
25	b Coriandrum sativum c Mentha spicata
8,	d Eugenia caryophyllus
250	C Mentha spicata d Eugenia caryophyllus Which of the following test is confirmatory test for catechu?
260 (80° 1	b Gold beater's test
	Which of the following test is confirmatory test for catechu? Ferric chloride test Gold beater's test Matchstick test Gelatine test
No.	
20° 18°	
40th 251,	
10653	Page 1 of 4
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5, 70,	D0A77C10AD2113F0C00769DAC13E4A03

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- plant is known as Indian Kino is use for its astringent activity
 - Taxus brevifolia
 - Pterocarpus marsupium
 - Picrorhiza kurroa
 - *Uncaria gambier*
- Following are the examples of pathological resin containing drug except
 - Benzoin
 - Asafoetida
 - Colophony
 - Guggul
- Which of the following drug will give combined umbelliferon test positive?
 - Benzoin
 - Asafoetida
 - Colophony
 - Guggul
- Atropine is
 - *l*-hyoscyamine
 - *d*-hyoscyamine
 - dl-hyoscyamine
 - *d*-hyoscine
- enzyme plays main role in conversion of 3 -Hydroxy-3 methylglutaric acid to mevalonic acid
 - a HMG Co-A Synthase
 - b Aceto acetyl Synthase
 - Mevalonic acid Synthase
 - HMG Co-A Reductase
- 13 Which of the following drug will give positive modified Bontrager's test
 - a Senna
 - Aloe <
 - Bitter almond
 - Digitalis
- is the source of Dianthrone glycosides
 - Senna
 - Aloe
 - Bitter almond
 - **Digitalis**
- Identify the given structur

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57	
887	
(S ^S)	Picroside
b	Forskolin
CC	Taxine S S S S S S S S S S S S S S S S S S S
d d	Gentiopicrin
16	metabolite of of A. annua shows 7-member ring structure.
a a	
	Artemisinic aldehyde Artemisinin
d d	Dihydroartemisinic acid
17 S	
17 j	Carotenoids are compounds.
b	C-20 S S S S S
c c	
d d	C-40 SC 10 ST ST ST ST ST ST ST
37 18	In the extraction of Sennosides is prepared in-situ by addition of
	Calcium chloride and liquor ammonia 30%.
a h	HClV CaCO ₃
c c	CaOH A S S S S
E G C	NH ₄ Cl
19	Microwaves are electromagnetic radiations with a frequency from GHz
a	0.3 to 300
	300 to 3000
	0.003 to 0.3 3000 to 300000
20	Which of the following is not true about SFE?
	SCF is easily recoverable from the extract due to its volatility Low boiling components are extracted at relatively high temperatures.
	Non-toxic solvents leave no harmful residue
D d	Thermally labile compounds can be extracted with minimal damage as low
M. Ook	temperatures can be employed by the extraction
Q. II A	Answer any TWO out of THREE 20
	a. Give example of an acid resin. Mention it's source, preparation & 10
	Chemical tests. b. Enlist 4 methods use in tracer techniques and explain any 1 method with
Spr. Cor	suitable example.
a sol	Write a Faut note of the fall of the state o
	Write a short note on the following a. HPTLC in phytochemical analysis
	b. Electrophoresis in drug identification
3	Write a short note on source, industrial production, estimation and uses of
	following. a. Sennosides
ST ST, SE	b. Digoxin
D' NA	The second secon
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A) (100000	
9° 29° 10F	D6A99C70AD2773F6C66989BAC13E4A65

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200	II B. Answer	any SEVEN out of	NINE OF	Joy 25, V	35	888T
	(5)	note on various methor		active precursors.	5	
10 ST13	2 Discuss i	in detail collection & pathway for biosynt	chemistry of Opium	alkaloids.	5 5	
	4 Discuss 1	phytochemistry of Ca ate structures.			vith 5	1/3
	* * \ \ *	the following phytoco	onstituents with resp	ect to their isolation	and 5	5
EDG AND	a. R		69° agar	Children Children	Dor og	OF
AT ESS	6 Write a r	note on the analysis o	f following phytocol	nstituents	5	30,
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Sp. Spile.	Volatile		S,	Co. 397	n ior 5	(306)
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