SET 2 QUESTION PAPER

Subject: Pharmacognosy & Phytochemistry I

Year and Sem: S.Y. B.Pharm (SEM-IV) (Choice Based) (R-2019)

Duration: 3 hours **Total marks: 80**

N.B.: 1. All questions are compulsory

2. Figures to right indicate full marks

Artificial invert sugar, an adulterant for honey is detected by a Selivonanoff's test b Fiehe's test c Ninhydrine test d Fehling test 2 Position of Plant in taxonomy and chemical nature of drugs is included in which of the following system of classification a Taxonomical Classification b Chemotaxonomical Classification c Chemical classification d Serotaxonomical classification 3 Total Ash value in case of crude drug signifies a Organic content of the drug b Cellular content of the drug c Inorganic content of the drug d Phytoconstituents of the drug 4 Palisade ratio is a Total number of palisade cells beneath each epidermal cell b Total number of Palisade cells beneath mesophyll c Average number of Palisade cells beneath ach epidermal cell d Average number of Palisade cells beneath four continuous epidermal cells 5 A change of the DNA sequence within a gene or a chromosome of an organism resulting in the creation of a new character or trait not found in the parental type a Chemodemes b Hybridization c Polyploidy d Mutation 6 The natural plant growth regulator which promote cell division, cell elongation and useful in root formation, phototropism, geotropism and apical dominance a Cytokinins b Abscisic acid c Auxins	Q. I	Choose appropriate option for following multiple choice based questions:	20M
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	3 6 75 6		

d	Gibberellins	2027
7	The most od of collection of sum from the plant	
7	The method of collection of gum from the plant	0 4 8 (A)
<u>a</u> b	felling	X - 6 - 5
	cutting	90 (A, 'A, (
d d	tapping discrine	33000
u	digging XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	1.6.6.6.6
8	Following are the methods of in -situ conservation except	
a	National Park	\$ 25 25 25
b	Botanical Garden	SO STATE
c	Statuary	X 30 00
d	Biosphere reserve	
		E TO
9	Cytokinins are derivatives of	Z.
a	Proteins	
b	Adenine Adenine	
c	Glycosides	
d	Indole	
	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
10	Following are the macronutrient; except	
a	Nitrogen	
b	Sulphur	
c	Copper	
d	Potassium	
	\(\text{C}\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
11	The unorganized mass of cells which proliferates from the cells of an explant is termed as	
a	Callus culture Company	
b	Protoplast culture	
c o	Suspension culture	
d. S	Culture C C C C C C C C C C C C C C C C C C C	
10 10 10 10 10 10 10 10 10 10 10 10 10 1		
12	The system of medicine which put forth the Laws of Similars which says that like cures like (Similae similibus curentur)	
of Racion	Unani	
Cb.	Homeopathy	
T C	Ayurveda	
T.d.	Siddha	
13	Identify the class of compound from the given basic nucleus	
	identity the class of compound from the given basic nucleus	
	Indole Alkaloids	
\$ \b \chi_\chi_\chi_\chi_\chi_\chi_\chi_\chi_	Anthraquinone Glycosides	

c	Quinoline Alkaloids	S A Y.
d	Cardiac Glycosides	100 Y
		20 6 10 C
14	Identify the class of compound from the given basic nucleus	2 2 2 C
11	recently the class of compound from the given basic nacious	X POL
		20,000
		55.5
		12 12 C
a	Isoflavonoids) <u>(S</u>
b	Neo Flavonoids	X
c	Flavonoids	
d	Flavan-3-ol	
u		
15	C-Anthraquinone glycosides are confirmed by which of the following tests	
a	Borntrager's test	
b	Modified Borntrager's test	
c	Keller Killiani test	
d	Shinoda test	
u	Simioda test	
16	Hemp is an example of fibre belonging to the class	
a	Regenerated fibre	
b	Mineral fibre	
С	Carbohydrate fibre	
d	Protein fibre Protein fibre	
	4246664466866666	
17 8	are agents that can cause a birth defect by permanently altering the	
	structure and functions of organs exposed to them	
a	Teratogens	
\$ b 8	Allergens	
2001	Hallucinogens	
Sp. K. Co	Enzymes	
	\$ 6 8 8 5 5 5 5 6 8 8 8 8 8 8 8 8 8 8 8 8	
18	The proteolytic enzyme derived from the bacteria present in the gut of silk	
STATE O	worm	
a P	Urokinase	
9 b 6	Streptokinase	
7 7 Co	Serratiopeptidase	
$\sqrt{\mathbf{d}}$	Pepsin	
26 XX	4 4 6 6 6 4 4 4 4 6 C	
19	Acacia and tragacanth are examples of natural gums classified in specific	
	group	
S S a	Seed gums	
\$ 5.b\$\\	Marine gums	
7 A 7 (B"A-)		

d Microbial Gums 20 Gelatin is the example of source of drug of natural origin which is obtained from the following a Vegetable source b Animal source c Mineral source d Marine Source Q. II A Answer any one of the following. 12M 1a Draw the nucleus, example, use and chemical test of the following- i. Tropane alkaloid ii. Cardiac glycosides iii. Triterpenoidal pentacyclic saponin 1b Define Ash value and swelling Index? Write a note on wax obtained from animal source. 2a Draw the nucleus, example, use and chemical test of the following i. Anthraquinone Glycosides ii. Steroidal saponin iii. Isoquinoline alkaloids 2b Define and write the significance of moisture content as physical parameter in the evaluation of Drugs of Natural origin. Give complete pharmacognostic account of any one oil having cathartic property.	С	Exudate gums	BOY
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	6,000		
	4a	Define Polyploidy and Hybridization.	3 M

4c	Compare and contrast Absorbent and Non-absorbent cotton.	3M
4d	Write about Sero-taxonomical classification of Drugs of natural origin with	3M
	suitable examples.	2 2 2 6 Kg
		Y TO TO
5a	Write a note on	6 M
	i. Conservation of medicinal plants.	
	ii. Novel medicinal agents from marine source.	
5b	Explain any two proteolytic enzymes obtained from plant source.	6 M