II B. Pharmacy II Semester Regular Examinations, April/May - 2019 PHARMACOGNOSY AND PHYTOCHEMISTRY-I

Time: 3 hours Max. Marks: 75 Note: 1. Question Paper consists of three parts (Part-I, Part-II & Part-III) 2. Answer ALL (Multiple Choice) Questions from Part-I 3. Answer any TWO Questions from Part-II 4. Answer any **SEVEN** Questions from **Part-III** PART -I 1. (i) What is the name of naturally occurring Auxin in plant? (1M)(a) 1-napthaleneacetic acid (NAA) (b) 2,4-Dichlorophenoxyacetic acid (2,4-D) (c) Indole 3-acetic acid (IAA) (d) 1-napthoxyacetic acid (NOA) Media room of a plant tissue culture lab should consist of the following. (ii) (1M)EXCEPT...? (a) pH meter (b) Autoclave machine (c) Analytical balance (d) Biosafety cabinet (iii) In a cell, protoplast consists of the following EXCEPT...? (1M)(a) Cell wall (b) Cell membrane (c) Nucleus (d) Cytoplasm (iv) Which of the following is a fixed oil? (1M)(a) Castor oil (b) Lemongrass oil (c) Clove oil (d) Eucalyptus oil (v) Hybridoma cells are (1M)(a) Non anchorage dependent and cannot grow in suspension culture (b) Non anchorage dependent and can be grown in suspension culture (c) Anchorage dependent and can be grown in suspension culture (d) Anchorage dependent and cannot grow in suspension culture A plant cell placed in hypotonic solution will (vi) (1M)(a) Shrink (b) Undergo plasmolysis (c) Swell up and become turbid (d) Swell up and burst is an example of an un organized drug. (1M)(a) Senna leaf (b) clove bud (c) Gum tragacanth (d) cinnamon bark Keller-Killiani test is performed for the identification of (viii) (1M)(a) Alkaloids (b) Steroids (c) Glycosides (d) Carbohydrates Example of substitution with exhausted drug is (xi) (1M)(a) Senna (b) Clove (c) Opium (d) Saffron Hagersreagent contains (1M)(x) (a) Potassium mercuric iodide (b) Potassium bismuth iodide (c) Potassium iodide and iodine (d) Picric acid (xi) Which of the following is the identification test for saponin glycosides? (1M)(a) Olive oil test (b) Foam test (c) Both a&b (d) None of the above belong to the Volatile Oils. (1M)(xii)

(d) Datura

(b) cinchona (c) Senna

(a) Dill

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(x		iii) Which of the following is statements is true for glycosides (a) They always give glucose on hydrolysis (b) Sugars are always connected to aglycon via ether bond (c) They give positive reaction to Molisch reaction (d) DNA is not a glycoside			(1M)	
	(xiv		is an example of a secondary metabolite. (a) Glucose (b) adenine (c) atropine (d) arginine			(1 M)
	(xv)		Gelatin is			(1M)
	(xvi)		Function of aglycone is			(1M)
	(xvii)		always contains polyhydroxy phenolic groups (a) Alkaloids (b) glycosides (c) tannins (d) terpenes			(1 M)
	(xviii)		Hydrolysable tannins gives color with tannins (a) Pink (b) yellowish red (c) bluish black (d) brownish green			(1M)
	(xix)		Gold beaters skin test is conducted for			(1M)
	(xx)		The example of pseudoalkaloid (a) Caffeine (b) nicotine (c) Arecoline (d) Lobeline			(1M)
				PART –II		
2. a) Wr		Wı	rite about the factors affecting t	he cultivation of medicinal	plants.	(5M)
	b)	Wı	rite a note on Polyploidy, mutat	ion and hybridization.		(5M)
3.		Explain the principle, procedure, advantages and disadvantages involved in the taxonomical classification, morphological and pharmacological classification of crude drugs.				(10M)
4.	a) What are Carbohydrates? Classify them with examples and write abordenical tests used for the identification of carbohydrates.		and write about the	(5M)		
b) Explain the pharmacognosy of again		plain the pharmacognosy of aga	ar.		(5M)	
PART –III						
5.		Di	scuss the chemical tests used fo	r identification of glycoside	es.	(5M)
6.			rite short notes on Stomatal index (ii) Palisad	e raion		(5M)
7.		Wı	rite a note on Serratiopeptidase.			(5M)
8.		Ex	plain the principles and signific	cance of Ayurveda system of	of medicine.	(5M)
9.			hat are alkaloids? Classify therentification of alkaloids.	m with examples. Write cl	nemical tests used for	(5M)
10.		Wı	rite a note on hallucinogens.			(5M)
11.		Wı	rite about the pharmacognosy o	f papain.		(5M)
12.		Wı	rite short notes on bees wax.			(5M)
13.		Wı	rite about the pharmacognosy o	f casein. $2 \text{ of } 2 + 3 = 3 \text{ of } 2$		(5M)