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Total No. of printed pages = 4

BP 405 T

BINA CHOWDHURY CENTRAL LIBRAR (CHMT & RIPS)

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Www.wahan 795517

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Roll No. of candidate		T NA			

2020

B.Pharm. 4th Semester End-Term Examination

PHARMACOGNOSY AND PHYTOCHEMISTRY - I

Full Marks - 75

1.

Time - Three hours

The figures in the margin indicate full marks for the questions. Choose the correct answer from the following. $(20 \times 1 = 20)$ Who coin the term "Pharmacognosy"? (i) Seydler (a) Galen (b) Hippocrate (d) (c) Hahnemann The term "Gignosco" refers to (ii) To acquire the knowledge of (a) A treatment (b) Study of A drug (d) (c) (iii) Guard cells are covered with three subsidiary cells known as (b) Anomocytic stomata Anisocytic stomata (a) Diacytic stomata (d) Actinocytic (c) (iv) Dicotyledonous plant means The flowering plant whose seed typically has one embryo leaves (a) The flowering plant whose seed typically has two embryo leaves (b) The flowering plant whose fruit typically has one seeds (c) Non vascular plants (d) Ash value of crude drug is evaluated to determine (v) Phytoconstituents present in crude drug (a) Organic substance present in crude drug (b) Inorganic substance present in crude drug (c)

Mucilage present in crude drug

(d)

	(vi)	B.O.D full form ———.						
	(vii)	Water holding capacity of the soil is increased due to presence of						
		(a)	Azolla	(b)	Azatobactor			
		(c)	Humus	(d)	Nitrogen			
	(viii) Following which hormone is gaseous in nature							
		(a)	Auxin	(b)	Gibberellin			
	401	(c)	Cytekinin	(d)	Ethylene			
	(ix)	Swe	Swelling factor of crude drug is evaluated to determine					
		(a)	Tannin present in crude drug					
		(b)	Inorganic substance present i	n cru	de drug			
		(c)	(c) Mucilage present in crude drug					
		(d) Fatty material present in drug						
	(x)	Astr	ingent refer to					
		(a)	Protein precipitation	(b)	Expel gases from stomach			
		(c)	Treat cough	(d)	Blood purifier			
	(xi)	i) Following any one is the synthetic auxin						
		(a)	Zeatin	(b)	Kinetin			
		(c)	Indole acetic acid	(d)	2,4-Dichioro phenoxyacetic acid			
	(xii)	Salk	cowski reaction is used to detec	t				
		(a)	Steriod	(b)	Tannin			
		(c)	Carbohydrate	(d)	Alkaloid			
	(xiii)	iii) — is used as surface sterilizing agent in plant tissue culture.						
		(a)	Sodium hypochlorite	(b)	Indole 3-acetonitrile			
		(c)	NaCl	(d)	NaOH			
	(xiv)	xiv) — is carbon source used in tissue culture technique.						
		(a)	Glucose	(b)	Fructose			
		(c)	Dextrose	(d)	Galactose			
	(xv)) Father of Homeopathy medicine						
		(a)	Samuel Hahnemann	(b)	Disocordies			
		(c)	George Bentham	(d)	Seydler			
BP 4	05 T		2					

		_ET-10-10-10-10-10-10-10-10-10-10-10-10-10-	CHOWERSHIT SERVICE CONTRACTOR			
(xvi)	Milk contain —	-ENLTY	(CHOWERORY CESTARE LISTS) AZERE Hatto wespers,			
	(a) Casein	(b)	Bromelain			
((c) Pepsin	(d)	Urokinase			
(xvii)	Wool fat is a extract obtain from					
((a) Plant source	(b)	Animal source			
((c) Mineral source	(d)	Synthetic source			
(xviii)	Family of acacia	4				
((a) Rubiaceae	(b)	Asteraceae			
((c) Leguminosae	(d)	Myrtaceae			
(xix)	Castor oil is use to induce ———		in rat.			
((a) Hypertension	(b)	Cancer			
(c) Diabetes	(d)	Diarrhoea			
(xx) S	Shinoda test used to detect					
(a) Flavonoid	(b)	Glycoside			
(c) Alkaloid	(d)	Protein			
Answe	er any seven questions :		$(7 \times 5 = 35)$			
(a) I	Differentiate between:					
(i	i) Organized and unorganized d	rugs				
(j	ii) Morphological and microscopi	cal e	valuation of a crude drug.			
C	Mention the advantages of ve	egeta	tive propagation method for the the terms Latex, Oleo gum resin and $(2+3)$			
	Classify stomata with diagram. Di nd trichomes.	scus	s the functional difference of stomata (3 + 2)			
	Write down the general properties of enzyme. Write down the source and uses of papain and bromelain. (2 + 3)					
th	Vrite down the differences between he significance of determination of f crude drug.	n adı of ext	ulterant and substitutes. Write down tractives value and moisture content (2 + 3)			
	Define and classify alkaloid. Discuil.	uss t	he properties of tannin and volatile (3 + 2)			
	nlist some natural sources known		natural allergens and hallucinogens. art of tragacanth. $(1.5 + 1.5 + 2)$			

2.

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- (h) Discuss details on preparation of culture media used for Plant Tissue Culture. (5)
- (i) Explain in details types of pest control techniques applicable during cultivation of medicinal plants. (5)
- 3. Answer any two from the following:

 $(2 \times 10 = 20)$

- (a) Write short note on Ayurveda-Indian System and Chinese systems of medicine. (5+5)
- (b) Discuss on some novel medicinal agents from marine sources along with therapeutic effect. (10)
- (c) Define Explant. Enumerate the different types of tissue culture. Discuss a neat diagram and the detailed procedure for the culturing of protoplast.

(1+2+7)

(d) How do you explain standardization of crude drugs? Discuss details on plant growth regulator with its application. (3 + 7)