

Name:	
Enrolment No:	

UPES	
End Semester Examination, May 2023	
Course: Pharmacognosy and Phytochemistry I	Semester: 4th
Program: B. Pharm	Duration: 03 Hours
Course Code: BP 405T	Max. Marks: 75
Instructions: All the sections are compulsory.	

SECTION (A) (20Qx1M=20 Marks)			
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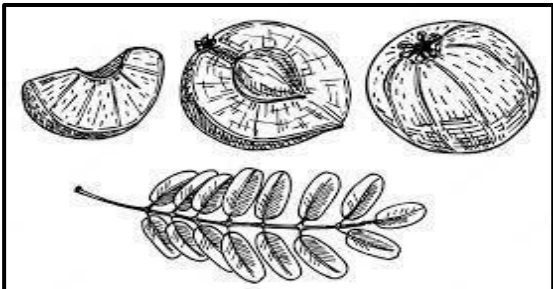
S. No.		Marks	COs
Q1	Which secondary metabolite is responsible for plant pigmentation? A) Flavonoids B) Alkaloids C) Tannins D) Glycosides	1	CO1
Q2	Which part of glycoside is responsible for its absorption? A) Aglycone B) Glycone C) Glycosidic linkage D) None of the above	1	CO1
Q3	Define the term Sophistication.	1	CO1
Q4	Who is the father of Homeopathy?	1	CO1
Q5	Fill in the blank. Silymarin is isolated from the plant... ..and contain flavonoids. A) Silybum marianum B) Ocimum sanctum C) Rauwolfia serpentina D) None	1	CO2
Q6	Which of the following chemical test is done for the identification of cardiac glycoside? A) Legal's test B) Foaming test C) Shinoda test D) Heamolytic test	1	CO2
Q7	The term Pharmacognosy was coined by. A) Aristotle B) Hippocrates C) Galen D) Seydler	1	CO2
Q8	1mg of powdered lycopodium contains. A) 94000 Spores B)84000 Spores C)74000 Spores D)64000 Spores	1	CO2
Q9	Identify the unorganized drug among these drugs. A) Bees wax B) Senna C) Digitalis	1	CO3

	D) Ashoka		
Q10	Briefly explain the significance of organoleptic evaluation.	1	CO3
Q11	Choose the method used for the extraction of tannins. A) Clavenger apparatus B) Hydro distillation C) Both A & B D) Soxhlet apparatus	1	CO3
Q12	Write any one difference between C-glycoside and O-glycoside with one example of plant containing it.	1	CO3
Q13	Write the name of biological source of proteolytic enzyme streptokinase.	1	CO4
Q14	Write a note on Keller Kiliani test.	1	CO4
Q15	Write the name of ingredients used in the preparation of “Triphala” including the biological source of each ingredient.	1	CO4
Q16	What is the mechanism of action of edible vaccine to improve the immunity?	1	CO4
Q17	Write the significance of Ash value.	1	CO5
Q18	What is the principle of Ayurvedic treatment?	1	CO5
Q19	Describe in brief about types of plant tissue culture.	1	CO5
Q20	Describe in brief about lycopodium spore method.	1	CO5

SECTION B (20 Marks)

(2Qx10M=20 Marks)

Attempt 2 Question out of 3

Q 1	Identify the medicinal plant from the picture and write its biological sources, chemical identification test and uses. 	2+3+2+ 2+1	CO3
Q 2	Identify the medicinal plant from the picture and write its biological sources, chemical identification test and uses. 	2+3+2+ 2+1	CO3

Q 3	Analyze the following information and answer the question.	2X5	CO4																		
	<table border="1"> <thead> <tr> <th>Secondary metabolite</th> <th>Part of the plant</th> <th>Uses</th> </tr> </thead> <tbody> <tr> <td>Glycoside</td> <td>Leaves</td> <td>Cardiotonic drug</td> </tr> <tr> <td>Glycoside</td> <td>Leaves</td> <td>Laxative drug</td> </tr> <tr> <td>Glycoside</td> <td>root</td> <td>Antiulcer drug</td> </tr> <tr> <td>Glycoside</td> <td>Seeds</td> <td>Local irritant</td> </tr> <tr> <td>Glycoside</td> <td>Entire herb</td> <td>Anti-pyretic</td> </tr> </tbody> </table> <p>A) Name the glycoside used for cardio protection? B) Which category of glycoside are used as laxative? C) Write the biological source of that glycoside that is used as antiulcer drug. D) Name the local irritant glycoside. E) Which class of glycoside is used as anti-pyretic drug?</p>	Secondary metabolite	Part of the plant	Uses	Glycoside	Leaves	Cardiotonic drug	Glycoside	Leaves	Laxative drug	Glycoside	root	Antiulcer drug	Glycoside	Seeds	Local irritant	Glycoside	Entire herb	Anti-pyretic		
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SECTION C (35 Marks) (7Qx5M=35 Marks)																					
Attempt 7 Question out of 9																					
Q 1	Which traditional medicinal system deals in plant-based medicines explain in detail.	5	CO1																		
Q 2	Name the class of secondary metabolite observed in the above reaction and explain in brief the physical and chemical properties.	1+2+2	CO1																		

	Soak a small piece of gold beater skin (membrane prepared from intestine of Ox) in HCl, Rinse with water and place in a plant solution to be tested for 5 minutes. Skin is washed with distilled water and transferred to the solution of FeSO ₄ . Brown or black color on skin is produced due to presence of secondary metabolite.		
Q 3	Illustrate the Pharmacognosy and chemistry of anthraquinone Glycosides.	5	CO2
Q 4	Write a note on following A) Edible vaccine B) Homeopathic system of medicine.	2.5+2.5	CO2
Q 5	What are Lipids? Discuss about any two lipid containing drugs.	5	CO3
Q 6	Write the biological source of given crude drugs. A) Bees wax B) Honey C) Aloe vera D) Myrobalan E) Ruta	1X5	CO3
Q 7	Write in detail about organized and unorganized drugs.	2.5+2.5	CO4

Q 8	Write short notes on any two. A) Alphabetical classification B) Organoleptic evaluation C) Marine drugs	2.5+2.5	CO4
Q 9	Explain the micropropagation techniques used in Plant tissue culture.	5	CO5