Enrollment No: _____

PARUL UNIVERSITY FACULTY OF PHARMACY B. Pharm. Winter 2022 - 23 Examination

	Date: 18/10/2022 Time: 10:00am to 1:00pm Total Marks: 75	
Instructions:		
1. Figures to the right indicate maximum marks.		
2. Make suitable assumptions wherever necessary.		
Q.1 Multiple Choice Questions (MCQs) (1 Mark Each)	(20)	
1 is synonym for Belladonna Herb.		
a) Sag-angur Patti b) Mahuang		
c) Madagascar d) Jesuits Bark		
2. Phytoconstituents of liquorice are from chemical class		
a) Alkaloid b) Resin		
c) Saponin Glycoside d) Anthraquinone Glycoside		
3 Anthraquinone Glycoside requires oxidative hydrolysis.		
a) O b) C		
c) Z d) A and B		
4. Salt form of alkaloid are soluble in		
a) Water b) Chloroform		
c) Hexane d) Petroleum Ether		
5 is added to precipitate out excess lead while isolation of Caffeine from	n tea dust.	
a) Lead acetate b) H ₂ SO ₄		
c) Chloroform d) None of these		
6. Diosgenin is a precursor for synthesis of,		
a) Anthraquinones b) Terpenoids		
c) Cardiac glycoside d) Steroids		
7. Which of the following is considered as modern method of extraction?		
a) Liquid phase micro extraction b) Maceration		
c) Percolation d) All of these		
8 is anticancer drug from following.		
a) Digoxin b) Clove		
c) Cinnamon d) Taxol		
9. Select the secondary metabolite that's used in leather industry.		
a) Tannins b) Resin		
c) Volatile oil d) Alkaloid		
10. Positive Meconic acid test indicates presence of,		
a) Cardiac Glycoside b) Indole alkaloid		
c) Opium alkaloid d) None of these		
11. Identify anti-malarial Phytoconstituent.		
a) Artemisinin b) Atropine		
c) Podophyllotoxin d) Curcumin		
12. IR spectroscopic techniques used for identification of,		
a) Molecular mass b) Functional group		
c) Number of Hydrogen in structure d) Number of Carbon in structure		
13 spectroscopy is known as vibrational rotational spectroscopy.		
a) IR b) MASS		
c) NMR d) UV		
14. Digoxin is in nature.		
a) Antihypertensive b) Cardiotonic		
c) Analgesic d) Laxative		

15.	is precursor for synthesis of tropane alkaloid.		
	a) Ornithine	b) Erythrose 4 phosphate	
	c) Acetyl coenzyme A	d) Phosphoenolpyruvate	
16.	Vitali Morin test identifies alkaloid.		
	a) Opium	b) Tropane	
	c) Indole	d) Pyruvic acid	
17.	is an example of oleogum resin.	1) Marul	
	a) Asafoetidac) Ginger	b) Myrrh d) Curcuma	
18	Super critical behavior of CO_2 at critical point of,	u) Curcunia	
10.	a) 73.83 bar pressure and 31.06 ^o C temperature	b) 73.83 bar pressure and 25.06 $^{\circ}$ C	
		temperature	
	c) 71.03 bar pressure and 31.06 °C temperature	-	
		temperature	
19.	R _f is,		
	a) The ratio of the distance traveled by the	b) The ratio of the distance traveled by the	
	center of a spot to the distance traveled by	solvent front to the center of a spot to the	
	the solvent front. c) Both	distance traveled d) None	
20	Number of carbons Sesquiterpenes.	u) none	
20.	a) 05	b) 15	
	c) 20	d) 30	
Q.2	Long Answers (any 2 out of 3) (10 Mark Each)		(20)
1.	Define and classify alkaloids, discuss their phys	ico-chemical properties And Give a note on	
	vinca alkaloids.		
2.	Industrial production, estimation and utilization of S	ennoside and Caffeine.	
3.	Write a detail note on terpenoid pathway and shikim	ic acid pathway.	
Q.3	Short Answers (any 7 out of 9) (5 Mark Each)		(35)
1.	Give Pharmacognosy of Pterocarpus.		
2.	Give a note on opium alkaloids.		
3.	Define cardiac Glycoside and give a detail note on C	One drug containing cardiac glycoside.	
4.	Industrial production, estimation and utilization of Atropine.		
5.	Isolation, Identification and Analysis of Glycyrhetin	ic acid.	
6.	Isolation, Identification and Analysis of Menthol.		
7.	Discuss radio tracer technique in detail.		
8.	Discuss application of Chromatography and Spectroscopy for identification of herbal drugs.		
9.	Define Resins and discuss Pharmacognosy of Ben	zoin.	