R19

Code: BP504T

B.Pharm III Year I Semester (R19) Regular & Supplementary Examinations January 2023 PHARMACOGNOSY & PHYTOCHEMISTRY – II

Time: 3 hours Max. Marks: 75

PART - A

(Compulsory Question)

1	(a) (b) (c) (d) (e) (f) (g) (h) (i)	Answer the following: (10 X 02 = 20 Marks) Define radioisotopes and give their uses in biogenetic studies. Define secondary plant metabolite with suitable examples. Give chemical constituents and uses for Liquorice. Write botanical source and chemical constituents of Senna. Write identification of Podophyllotoxins. Write the isolation process of Citral. Write the utilization of Diosgenin. Give a note on industrial production of Vinblastine. Write the applications of microwave assisted extraction. Define Electrophoresis and give its applications.	2M 2M 2M 2M 2M 2M 2M 2M 2M 2M 2M
		PART – B	
		(Answer any two questions: 02 X 10 = 20 Marks)	
2	(a) (b)	What are cardiac glycosides? Give the pharmacognosy of Digitalis in detail. Give the biological source, chemical tests and uses Clove.	7M 3M
3	(a) (b)	Discuss the industrial production and estimation of Forskolin. Explain the estimation of Caffeine.	7M 3M
4	(a) (b)	Explain in detail method of isolation and identification of Menthol. Describe the isolation and identification of Citral.	7M 3M
		PART – C	
		(Answer any seven questions: 07 X 05 = 35 Marks)	
	5	Mention different methods for biogenetic investigations and explain tracer technology.	5M
6	(a) (b)	Give the biological source, chemical constituents and uses of Belladonna. Give the identification tests for Benzoin and Colophony.	3M 2M
7	(a) (b)	Write note on identification of Rutin. Explain the method of isolation and identification of Atropine.	2M 3M
8	3 (a) (b)	Describe the estimation and utilization of Artimisinin. Write a note on industrial production of Sennoside.	3M 2M
ć)	Explain the role of column chromatography in isolation and purification of phytoconstituents.	5M
1	0 (a) (b)	Give the biological source, chemical constituents and uses of Liquorice. Give the identification tests for Lignans.	3M 2M
1	1 (a) (b)	Write isolation and analysis of Glycyrrhizin. Write identification test for Quinine.	3M 2M
1	2 (a) (b)	Write the method of production and identification for Podophyllotoxins. Give the source and uses of Digoxin.	3M 2M
1	3 (a) (b)		3M 2M

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B.Pharm III Year I Semester (R19) Supplementary Examinations July/August 2022 PHARMACOGNOSY & PHYTOCHEMISTRY - II

Time: 3 hours Max. Marks: 75

PART - A

(Compulsory Question)

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1		Answer the following: (10 X 02 = 20 Marks)	
	(a)	Define primary and secondary metabolites.	2M
	(b)	Define biosynthetic pathway.	2M
	(c)	Write the general tests for alkaloids.	2M
	(d)	Define resins.	2M
	(e)	Write the confirmatory test for caffeine.	2M
	(f)	Write the biological source and uses of podophyllotoxin.	2M
	(g)	Write a note on Vitali-Morin test.	2M
	(h)	Write the biological source and uses of diosgenin.	2M
	(i)	Define chromatography and electrophoresis.	2M
	(j)	Write the difference between preparative and analytical chromatography.	2M
		PART – B	
		(Answer any two questions: 02 X 10 = 20 Marks)	
2	(a)	Write a note on shikimic acid pathway.	5M
	(b)	Describe the method of isolation and analysis of quinine.	5M
3	(a)	Explain industrial production and estimation of forskolin.	5M
,	(b)	Write a note on microwave assisted extraction of crude drugs.	5M
4	(a)	Write the biological source, chemical constituents and uses of digitalis & fennel.	5M
4	(b)	Write a note on flavonoids.	5M
	(0)	White a note on haveholds.	0
		PART – C	
		(Answer any seven questions: 07 X 05 = 35 Marks)	
5		Write the role of radio-isotopes in study of biogenetic pathway.	5M
		While the fold of fault locatopes in clady of bloggerious parintay.	0
6	(a)	Write the biological source, chemical constituents, chemical tests and uses of guggul & clove.	2M
	(b)	Write the biological source, chemical constituents, chemical tests and uses of asafoetida &	3M
		myrrh.	
7	(a)		2M
	(b)		3M
		almond.	w.
	(0)	Write the isolation and analysis of menthal	21/1
8			2M
	(b)	Wille the isolation and analysis of curcumin.	3M

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