

NC-02010303

Seat No.

M. Pharm. (Sem. I) Examination

January - 2017

Advance Pharmacognosy

(Core - I)

Time: 3 Hours [Total Marks: 80

Instructions:

- (1) Answer and tie both the section separately.
- (2) Figures to the right indicate marks.
- (3) Answer any three from each section except 1 and 5 are compulsory.
- (4) Draw neat and clean diagram when required.

SECTION - I

1 Answer any seven out of given ten questions:

14

- (1) Define glycoside and its general properties.
- (2) Define alkaloid and its general properties.
- (3) What are the disadvantages of cultivated plant?
- (4) How can you authenticate a plant material? Why it is necessary?
- (5) Definestomatal index and stomatal number with its significance.
- (6) Enlist antipyretic in vivo animal models.
- (7) What is Lycopodium spore method?
- (8) What are the advantages and disadvantages of UV detection method in TLC ?
- (9) What are the drawbacks of silica gel as an adsorbent in Thin Layer Chromatography ?
- (10) Define mutation and polyploidy.

2	Answer the following:		
	(1)	What is the microtome ? Discuss the types of microtome and its applications.	7
	(2)	Discuss different diagnostic values for microscopy as per pharmacopoeias.	6
3	Answer the following:		
	(1)	Define Rf value. Discuss factor affecting Rf value and applications of TLC.	7
	(2)	Discuss any two in vivo models for screening of Antidiabetic drugs.	6
4	Answer the following:		
	(1)	Write note on isolation of any two alkaloids.	7
	(2)	Discuss general isolation method for glycoside and method forisolation of Cardiac Glycoside and Flavonoid Glycoside.	6
		SECTION - II	
5	Write any two out of three:		14
	(1)	Write detail note on plant growth regulator.	
	(2)	Discuss bio screening models for anti-inflammatory drug and mention recent herbal plants for it.	
	(3)	Discuss principles involve in Thin layer Chromatography. Differentiate TLC and HPTLC.	
6	Answer the following:		
	(1)	What are the advantages of herbal pesticides? Write note on	7
		herbal pesticide.	

7 Answer the following:

- (1) Discuss supercritical fluid extraction with advantages and disadvantages.
- (2) Discuss quantitative and qualitative phytochemical analysis 6 methods for phenols and flavanoids.

8 Answer the following:

- (1) Discuss factor affecting cultivation of plants with examples. 7
- (2) Write note on various cultivation and collection methods for plant as per WHO guideline.

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