

Time: Three Hours]

## NRJ/KW/17/4295

[Maximum Marks: 80

### PHARMACOGNOSY AND PHYTOCHEMISTRY-V

# (Phytopharmaceutical/Herbal Technology)

### Paper-5

N.B.	.:— (1) Q. No. I is compulsory.	
	<ol><li>Attempt any four questions from remaining.</li></ol>	
	(3) Draw neat labeled diagrams wherever necessary.	
1.	Solve any five of the following:	
	(a) Define and classify alkaloids with examples.	
	(b) Write a note on Global market for herbal products and opportunities in India.	
	(c) Write a note on Ergot.	
	(d) Write in short importance of standardization & problems involved in it.	
	(e) Write a note on Parriflora incarnata.	
	(f) Write biological source chemical constituents and uses of Raman Chamomile.	
	(g) Write a note on Rauwolfia.	×4=20
2.	State the role of medicinal & aromatic plants in national economy along with the imp	ortance
	of natural products for drug development.	15
3.	(a) What is herbal drug interaction? Mention its classification. State the interaction of	Ginkgo
	biloba and ginger.	8
	(b) Define Flavonoids. Give classification chemistry and extraction of Flavonoids.	7
4.	(a) Outline the biosynthesis of Tropane alkaloid.	8
	(b) Give the Pharmacognostic account of Cinchona Bark.	7
5.	(a) Explain any one method for Antidiabetic & Antioxidant screening of herbal drug formula	lations.
	x2-0	10
	(b) Give complete pharmacognostic account of Liquorice.	5
6.	(a) Give the procedure for extraction, Isolation and estimation Atropine.	8
	(b) Write a note on WHO guidelines for quality standardised herbal drugs and forms	ılation.
		7
7.	Write short notes on (any three):	
	(a) Patenting of Herbal drugs	
	(b) Steroidal alkaloids	
	(c) Validation of herbal products.	
	(d) Biosynthesis of Indole alkaloids.	
	(e) Green Tea. 5	×3=15