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Roll No.		Total No. of Pages:1
Total No. of Questions : 06		
M.Pharmacy (Pharmacognosy) (2017 & Onwards) (Sem.–1) PHYTOCHEMISTRY Subject Code : MPG-103T Paper ID : [74671]		
Time : 3 Hrs. Max. Marks: 75		
INSTRUCTIONS TO CANDIDATES : 1. Attempt any FIVE questions out of SIX questions. 2. Each question carries FIFTEEN marks.		
1.	a) Give biosynthesis and method of isolation of Digitoxin.	(8)
	b) Write a note on Characterization of Piperine.	(7)
2.	What is Lead? Describe product discovery process and drug	registration. (15)
3.	a) Give a descriptive note on Supercritical Fluid Extraction.	(8)
	b) Describe working principle of Counter current extraction	process. (7)
4.	Give principle of HPTLC. Describe the role of HPTLC in an	alysis of herbal extract. (15)
5.	Give UV, IR, <sup>1</sup> H and 13CNMR and Mass spectral data for and Luteolin.	structure elucidation of Citral (15)
6.	Write short notes on :	
	a) Microwave assisted extraction	(5)
	b) Biosynthesis of Umbelliferone.	(5)
	c) Role of IR spectroscopy in structure elucidation of phytoe	constituents (5)