QP Code: 25596

[3 Hours] [Total Marks: 80]

N.B: 1. All questions are compulsory.2. Draw structure and diagrams wherever necessary.

1.	Answer the following:		20
		(1) With suitable example of formulation mention two applications of lecithin.(2) Define a Marker compound & its source.	
		(3) With suitable example of dosage form give two sources of natural colourants.	
		(4) Name any two derivatives of taxol.	
		(5) Give biological source & probable constituent of a nutraceutical used as hepatoprotective.	
		(6) Name any two qualitative chemical test.	
		(7) With suitable examples name any two Morphological parameters useful in authentication of a Bark.	
		(8) Name any one plant immunoglobulin with its application.	
		(9) Name any two crude drugs official in Indian herbal phamacopoeia.	
		(10) Name any two types of cellulose with their applications.	
2.	(a)	Describe in detail large scale extraction of opium alkaloids.	4
		Discuss in detail drug discovery, SAR, & derivatives of campthothecin.	4
	(c)	Write a short note on alginates.	4
3.	(a)	Give an overview of carragenans as phamaceutical excipients.	4
		Discuss significance of chemotoxonomy & DNA-finger printing in herbal drug research.	4
	(c)	Discuss Natural fragarant with respect to source, preparation & composition.	4
4.	(a)	Discuss large scale extraction of sennosides.	4
	(b)	Discuss different approaches to plant selection for herbal drug research.	4
	(c)	Write the source, application & chemistry of galactomannans.	4
5.	(a)	Write a note on nutraceutical & their role as Antihyperglycemics.	4
	(b)	Discuss salient features of any one herbal drug monograph mentioned in	4
	(c)	pharmacopoeia. Enumerate in detail drug discovery, SAR & derivatives of Artemisinin.	4
	(0)	Enumerate in detail drug discovery, Strice & derivatives of threshisimi.	
6.	(a)	Discuss cellulose ethers with respect to their source, properties & pharmaceutical applications.	4
	(b)	Elaborate significance of Natural products derived combinatorial libraries in getting	4
		leads.	
	(c)	Discuss large scale extraction of lemon grass oil.	4