Q.P. Code: 04549

[Marks : 80]

N.B: 1. All questions are compulsory. 2. Illustrate answers with sketches and structures wherever required. Answers to sub-questions must be written together. 1. (a) State true or false and justify all the statements with significant reasons or examples: i) Gelatin is an example of mineral – origin crude drug. ii) Picric acid is used for identifying endospermic tissue. iii) All seeds contain conducting tissues. iv) Ferric chloride test is answered positive by both flavonoids and tannins. Coppicing method is used for the collection of flower based crude drug. v) vi) Jute is a cellulosic fiber. vii) Chitin is a pathological product. viii) Ricin is used for protein digestion. (b) Answer the following: 12 Give merits and demerits of chemical classification of crude drug. i) ii) Enlist two examples each of mountants and clearing agents. Differentiate between organized and unorganized drugs. iii) Write a brief note on flavonoids. iv) What is polyploidy and mutation. Give suitable examples. v) Write a note on bentonite. vi) 2. (i) Explain the status and significance of pharmacognosy in Siddha and Aromatherapy. (ii) With the help of suitable labelled diagrams, explain the salient morphological & 4 histological features of bark-based drugs. (iii) What are Waxes? Explain source, preparation, constituents and use of Wool fat. (i) What is Inflorescence? Explain the different types of inflorescence with suitable 3. examples. (ii) Give complete classification of saponins with suitable examples, chemical test and important biological activities. (iii) Give the pharmacognostic account of a carbohydrate drug which is commonly used as a microbiological medium.

[Time: 3 Hours]

Please check whether you have got the right question paper.

4.	(i)	Give one example, important biological activity and basic chemical nucleus for	5
		a) Quinoline / Tropane class of alkaloids	\$
		b) Isothiocyanate / Anthraquinone class of glycosides	10
	(ii)	Write a note on natural pest control agents.	9
	(iii)	Write a note on source, preparation and uses of streptokinase and thyroid	3
		hormones.	
5.	(i)	Give complete classification of carbohydrates with suitable examples.	N. V.
	(ii)	Write a note on any two fibers obtained from stem.	,
	(iii)	Give biological source, chemical construction & uses of 'guggul' and 'chirata'.	,
6.	(i)	Write a note on calcium oxalate crystals	
	(ii)	a) Give the source, chemical test and uses of gelatin.	
		b) Give source, constitutent and use of Brahmi.	
	(iii)	Give complete pharmacognostic account of any one drying oil.	