[Time: 3 Hours]

Please check whether you have got the right question paper.

Q.P. Code: 03573

[Marks:70]

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 following statements with suitable examples:-7 Papain is an example of an organized crude drug. ii) Gibberlins are plant growth inhibitors. iii) Digitalis purpurea has entire leaf margin. Chloral hydrate is used as a mountant in microscopic preparations. iv) v) Coumarins are biosynthesized via acetate mevalonate pathway vi) Ferric chloride reagent is used for identification of tannins vii) Xanthan gum is obtained by process of gummosis (b) Answer the following:-8 Write any two exmaples of alkaloidal class of phytoconstituents with relevant chemical structures and therapeutic applications ii) Write a note on any one regenerated fibre. Give a brief account of ricin iii) iv) With the help of suitable examples differentiate between endospermic and nonendospermic seeds. 2. Compare and contrast alphabetical and morphological methods of classification of i) crude drugs. Illustrate with suitable labelled diagrams, the salient historical features of ii), 4 dorsiventral and isobilateral leaves. iii) Give source and commercial utility of inulin and malt. 3 3. i) State the principle of counter current extraction with applications. ii) Write source, preparation, chemistry and commercial utility for absorbent and nonabsorbent cotton. iii) Highlight the significance of aflatoxins and pesticide residues evaluation as per 3 WHO guideliness 4. Write in detail about exogenous and endogenous factors affecting quality of crude 4 ii) Outline the general methods of extraction of glycosides and tannins 4 iii) Explain the scope of pharmacognosy in traditional and complementary systems of 3 medicine.

[Turn Over]

T10026 / T0155 PHARMACOGNOCY & PHYTOCHEMISTRY I

Q.P. Code: 03573

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5.	i)	Write in detail about modifications of stem.	5 2
	ii)	Give pharmacognostic account of agar	164
	iii)	With the help of suitable examples, differentiate between adulteration and	300
		substitution of crude drugs.	
6.	i)	Outline the biosynthetic pathway of alkaloid precursor molecules, with structures.	5 X
	ii)	Give Sources, preparation and uses of thyroid hormones and pepsin	ے ک
	iii)	Write a note on preparation of crude drugs	3