			(3 Hours)	(Total Marks: 80)
N.B	.:	1)	Please check whether you have got the right question pa All questions are compulsory.	iper.
		2)	Draw relevant chemical structures and diagrams whereve	r applicable.
1.	a)	Ansv	wer the following:	(10)
		i)	Give any two examples of substitution of crude drugs.	
		ii)	Give any two methods with suitable examples for extrac oils.	tion of volatile
		iii)	State whether following statement is true of false justification: "Cholesterol is the precursor molecule for biosynthesis of	
		iv)	Give biological source and therapeutic uses of any one containing drug.	
		v)	Give the biological source and chemical constituent with some wood-based volatile oil drug.	structure of any
		vi)	Write the biological sources of any two sweeteners.	
		vii)	Give the biological source and commercial significance of	palmarosa oil.
		viii)	Write the biological source and chemical constituent oleo-	gum-resin.
		ix)	Write biological source of and chemical constituent of any tannin-containing drug.	one condensed
		x)	Name any one flavorant and perfume each along with t	heir biological
			sources.	
	b)	Ans	wer the following:	(10)
	210 K	i)	With the help of examples, write a note on adulteration of	crude drugs.
\$ 6		ii)	Outline general extraction scheme of any one drug, based property.	on its chemical
	326	iii)	Write in brief about processing and preparation of Ginger	for market.
		iv)	Write in brief about commercial application of tannins drug.	in synthesis of
		v)	What are edible vaccines? Give an example with its use.	
2.	i)	Give	e source, chemistry, cultivation and collection of clove.	(04)
	ii)	With	suitable structures, illustrate shikimic acid pathway.	(04)
9,70	iii)	Writ	e a note on different methods of manipulation of secondary m	netabolites. (04)

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3.	i)	Write a note on chemical methods of evaluation of crude drugs, as per WHO		
		guidelines.	\$200 E	
	ii)	Write a note on isolation, identification and analysis of menthol.	(04)	
	iii)	Give a detailed account of curcuminoids.	(04)	
4.	i)	Explain the principle involved, procedure and application of soxhlet extraction.	(04)	
	ii)	Compare and contrast pale and black catechu.	(04)	
	iii)	Write a note on colorants of natural origin.	(04)	
5.	i)	Write a note on natural drugs containing oraganosulfur compounds.	(04)	
	ii)	Give source, chemistry, chemical test and uses of vanillin and oil of wintergreen.	(04)	
	iii)	Give source, preparation, chemistry, chemical test and uses of Benzoin.	(04)	
6.	i)	Give an account of two alcohol containing volatile oil drugs.	(04)	
	ii)	Write a note on green tea.	(04)	
	iii)	Write a note on supercritical fluid extraction.	(04)	

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