Q.P. Code:11564

[Marks:60]

			F	Please check whether you have got the right question paper.				
		N.B:		All questions are compulsory. Choice is internal.	989			
				Figures to the right indicate full marks.	7			
			3.					
					2000			
Q.1	A. Attempt any one.							
	i)) What is Sep	haro	ise?	S. O.			
	ii	i) What are	Cyclo	odextrins?	3			
	B . A	Attempt any	one.		04			
		i)Explain the process for large scale production of starch						
	-	ii) List the sources from which pectin is obtained. Describe the process for its large scale production						
		rom any on			06			
	C. A	Attempt any	one.					
				ied carbohydrates? Give examples long with their applications.				
				cess of manufacturing and refining of cane sugar.				
0.2	Δ. Δ	Attempt any	one.		02			
) What are lu		ants?				
		i) What are b		21, 23 miles 44, 30, 64, 42, 60, 42, 42, 42, 42, 42, 42, 42, 42, 43, 43, 44, 42, 42, 43, 44, 44, 44, 44, 44, 44, 44, 44, 44				
		,	-6		04			
		B. Attempt any one.						
	i)	i) Write an informative note on extraction and applications of plant pigments.						
	ii	i) What are e	ssen	tial oils? Explain the process for extracting essential oil from any one suitable plar	nt			
	S	ource.			06			
	C. /	Attempt any	one.					
				ocess for extacting oil from ground nuts. Add a note on refining of vegetable oils.				
			· · · · · · · · · · · · · · · · · · ·	el? Explain its production from Jatropha plant.				
O 3		Attempt any	one	2, 4, 4, 5, 4, 4, 5, 6, 7, 5, 7, 7, 8, 8, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	02			
Q.5	0.1.0.1	Explain 'Gre			UZ			
O K	· ~ ~ ~ ~ ~	, VA - 1X, Q1 - 12	(/ ~	d a note on its significance.				
		, Bernie Bot	3395					
	B. 4	Attempt any	one.		04			
1900		Discuss the	toxic	effects of heavy metals.				
	Too ii	i) Write a not	te on	air pollutants.				
	2000 2000				06			
	O-7 -	Attempt any			00			
				the sources of water pollutants and their effects on human health.				
	, K., IX.	ollution.	ne	alth hazards of noise pollution. Add a note on the measures taken to control noise				
	1 80 C	3 7 K 6 6	300					
3 67	3, 4	SON DE STORE	5,0	(D.T.C	1 1			

[Time: 2:30 Hours]

Q.P. Code :11564

Q.4	A. Attempt any one. i) Explain the term GLP. ii) What are nanoparticles?					
	B. Attempt any one i) Explain the terms. a)Bioethics b)Quality control ii) Write an informative note on biofilms.	04				
	C. Attempt any one.i) What are liposomes? Discuss any one method of formation of liposomes and add a note on their applications.ii) What are biosensors? Add a note on their applications.	06				
Q.5	A. Attempt any one.i) Write in brief on Gum Arabic.ii)Name the by-products of sugar industry and add a note on their applications.	03				
	B. Attempt any one. i) Write a brief note on extraction of chlorophyll. ii) Give the industrial applications of any two of the following a) Sterols b) Lecithin c) Glycerol	03				
	C. Attempt any one. i)What is 'Green Chemistry'? ii) Explain the terms COD and dissolved oxygen.	03				
200	 D. Attempt any one. i) Write a brief note on diagnostic kits. ii) Give a brief account on the maintenance and management of experimental animals. 	03				
	2					