Q.P. Code: 12799

			(2½ Hours) [Total Marks:	75
N.	В.:	(2)	All questions are compulsory. All questions carry equal marks. Draw neat labeled diagrams wherever necessary.	
1.	Att	(a) (b) (c) (d)	any two of the following: Give a brief account of cultivation of any one type of mushroom. What are free radicals? What are the conditions that promote its formation? Enumerate the role of food as medicine in treating skin disorder. Describe the role of food as medicine in treating anaemia.	15
2.	Att		any two of the following: Describe various sterilization techniques used in plant tissue culture to ensure aseptic conditions. Give a brief account of somatic embryogenesis.	15
3.	Att	(a) (b) (c) (d)	Describe the methods of processing and storage of Curcuma longa. Add a note on it's propagation method. Explain the propagation method and medicinal use of Allium sativum. Describe the biological source, macroscopic and microscopic characters of Ocimum basilicum leaf. Give an account on chemical constituents and adulterants of Strychnos nux-vomica seeds.	15
4.	Atto	(a) (b) (c) (d)	any two of the following: Explain the construction of C-DNA library. Describe any one method to identify a specific clone in a genomic library. Explain the technique of Southern hybridization What is restriction enzyme analysis? Briefly describe the technique of the same.	15
5.	Atto	empt (a) (b) (c) (d) (e) (f)	write a short note on chromosome library. Write of the following: Write in short about grading and packaging of mushrooms. Explain requirements of antioxidants in body. Give a brief account of applications of Plant tissue culture. Briefly describe the preparation of artificial seeds. Give the medicinal uses of Acorus calamus.	15

CM-Con. 1054-15.