	(3 Hours) [Total Marks: 100]	14
N.B.	 All questions are compulsory. Draw neat labelled diagrams wherever necessary. All questions carry equal marks. 	
s Q.1 a	Attempt any two Give an account of applications of Ethnobotany with reference to edible plants, toxic	20
b	plants and antidotes. With suitable examples, describe the role of traditional medicine in wound healing and	32
c d	ageing. Describe the cultivation of any one mushroom studied by you Give an account of nutritional value and economic importance of mushrooms.	
Q.2	Attempt any two	20
a b	Define and compare genomic library, chromosomal library and c-DNA library. Describe the steps involved in screening specific c-DNA sequences from a c-DNA library using an antibody probe.	
c	What is restriction mapping? Explain with an appropriate example, construction of a restriction map	
d	Describe the steps involved in southern hybridisation for analysing cellular DNA.	
Q.3 a b c d	Attempt any two Explain the principle and working of Adsorption chromatography Describe the various components of colorimeter and their role. What is Ion Exchange Chromatography? Add note on types of resins used in it Define Chromatography. Explain the principle and working of Partition chromatography	20
Q.4	Attempt any two	20
a	Describe macro & microscopic characters, chemical constituents and adulterants of the <i>Allium Sativum</i>	
b 3	Explain the biological source, macro and microscopic characters and Therapeutic uses of Clove bud	
C S	Give an account biological source, chemical constituents and therapeutic uses of Senna leave.	
d	Describe biological source, common verities, macro and microscopical characters and therapeutic uses of <i>Curcuma longa</i> .	
Q.5	Attempt any four	20
a	Traditional medicines.	
b	Grading and packaging of mushrooms Restriction enzymes	
d	Applications of spectrophotometer	
e	Uses of column chromatography	
f	Medicinal values of Clove buds	
S. S.	56/8/8/8	

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