(3 Hours)	Total Marks: 100
Q.1: Attempt any TWO of the following.	
A: Describe the methods of collection of data in Ethanobotany.	(10)
B: What are traditional medicines? Citing suitable example, explain	n how tribal
use them against skin and liver ailments.	(10)
C: Describe the method of harvesting and grading of mushrooms.	(10)
D: Discuss the technique of composting and spawning in cultivation	on of Agaricus. (10)
Q.2: Attempt any TWO of the following.	
A: Define genomic library? Describe the construction of a genomi	c library. (10)
B: Explain steps involved in southern hybridization.	(10)
C: With an appropriate example, explain construction of restriction	n map. (10)
D: Describe the technique of colony hybridization for screening a	genomic library. (10)
Q.3: Attempt any TWO of the following.	
A: Give a brief account on the principle, working and applications	sof
Spectrophotometer.	(10)
B: Explain the principle and working of molecular sieve chromato	graphy (10)
C: What is ion-exchange chromatography? Add a note on types of	resins used in it. (10)
D: Briefly explain the principle and working of adsorption chroma	itography. (10)
Q.4: Attempt any TWO of the following.	9. V.
A: Describe the biological source, macroscopic and microscopic co	haracters of
Strychnos seed.	(10)
B: Define the term Monograph. Write an account on biological sou	
macroscopic and microscopic characters of Acorus calamus.	(10)
C: Write an account on chemical constituents and therapeutic uses	
Allium sativum.	(10)
D: Describe the biological source, geographical distribution, comm	
and therapeutic uses of Curcuma longa.	(10)
Q.5 Short notes (Attempt any four)	(20)
a. Toxic plants and antidotes	
b. Chromosomal library	
c. Radioactive labeling of DNA	
e. Working of Colorimeter.	
f. Chemical constituents of Senna leaf.	
g. Therapeutic uses of Clove bud.	
5'X. A. (2, 5) 'E. (3, 15) 'E. (3, 15) 'A. (4, 15) 'A.	

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