Paper / Subject Code: 24267 / Botany: Current Trends in Plant Sciences II

N.B. 1. All questions are compulsory. 2. Draw neat labeled diagrams wherever necessary. 3. All questions carry equal marks. P.1. Attempt any two a Explain method of collection of data in Ethnobotany. b With respect to Ethnomedicine and famine related plants, explain the applications of Ethnobotany. c Citing suitable examples, explain the role of traditional medicine in treating fever and diabetes. d Give an account of nutritional value and economic importance of mushrooms. Attempt any two a What is c-DNA library? Describe the steps involved in its construction. b Describe the technique of colony hybridization for screening a genomic DNA library. c What is restriction mapping? Explain with an appropriate example, construction of a restriction map. d Describe the steps involved in Southern hybridization for analyzing cellular DNA. Attempt any two a What is Ion Exchange Chromatography? Add note on types of resins used in it. b Define Chromatography. Explain the principle and types of partition chromatography. c Explain in detail the principle, working and applications of colorimeter. d Describe the working and principle of Molecular sieve chromatography. 4. Attempt any two a Describe macro & microscopic characters, chemical constituents and adulterants of the S	20
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leaves.	enna
b Define Monograph of drugs. Explain the biological source, macro and microscopical characters of Clove bud.	
c Give an account of biological source, chemical constituents and therapeutic uses of <i>Curclonga</i> .	ита
d Describe biological source, common varieties, macro and microscopical characters and therapeutic uses of <i>Allium sativum</i> .	
.5 Attempt any four	20
a Comment on the applications of Ethnobotany in Agriculture	
b Give the chemical constituents of Acorus calamus.	
c Write a note on spawning of mushroom	
d Comment on chromosome library e Give the applications of adsorption chromatography	
f Comment on the therapeutic uses <i>Strychnos nux-vomica</i> seeds	