## M.Sc.(Botany) (CBCS Pattern) Semester - IV

## PSCBOTT16.5 / PSSBOTT16 - Paper-XVI: Basic Botany-II

P. Pages: 1 GUG/S/23/11366 Time: Three Hours Max. Marks: 80 All questions are compulsory and carry equal marks. Notes: 1. 2. Illustrate your answer with suitable diagram and examples where-ever necessary. 1. Explain the mechanism of biological nitrogen fixation in plants. 16 OR Write on: 8 Protein synthesis in eukaryotes. Absorption of water by root. 8 b) What is ecological succession? Explain sequential stages of development of plant 2. 16 communities in hydrosere and add a note on climax community. OR Write on: Darwinism and Lamarckism. 8 b) Ecological adaptations in plants. 8 **3.** Give an economical importance of Wood, oils, gum and resin yielding plants with examples. 16 OR Write on: Fodder and forage plants. 8 Importance of spices and condiments. b) 8 4. Explain the geological time scale in detail. 16 OR Write on: Fossilization and its types. 8 Changes in organic life through ages. 8 b) **5.** Write short notes on: 4 a) Plant movement. 4 b) Xenobiotics. c) Drugs and Narcotics. 4 4 d) Epoch.

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