

This question paper contains 2 printed pages.]

Your Roll No. ....

**504**

**Subsidiary for B.Sc. Honours/II A**  
**BOTANY – Paper IV**  
**(Economic and Applied Botany)**  
**(Admissions of 2003 and onwards)**

**Time : 3 Hours**

**Maximum Marks : 50**

*(Write your Roll No. on the top immediately on receipt of this question paper.)*

**Attempt any five questions.**

**All questions carry equal marks.**

**All parts of a question should be attempted together.**

1. Write short notes on any **four** : **10**
  - (a) Ti plasmid
  - (b) Plant communities
  - (c) Sustainable development
  - (d) Zygotic embryo culture
  - (e) Food chain
  
2. Give the Botanical name, morphology of plant used, cultivation and economic importance of any **two** of the following : **10**
  - (a) Cotton
  - (b) Groundnut
  - (c) Rice
  - (d) Black pepper

3. Comment on : 10  
 (a) Bioresource conservation  
 (b) Application of micropropagation in forestry
4. What are the components of an ecosystem ?  
 Compare a terrestrial ecosystem with an aquatic ecosystem. 10
5. Distinguish between 10  
 (a) Indica and Japonica Rice  
 (b) Primary and secondary succession  
 (c) Ex situ and In situ conservation  
 (d) Green tea and black tea
6. (a) Briefly explain the method of tapping and  
 processing of the latex of Hevea. 5  
 (b) Name the Vavilovian centres of diversity  
 and give their significance. 5
7. What are the various sources of water pollution ?  
 How does the excess use of fertilizers affect a  
 water body ? Suggest some remedial measures. 10
8. What is recombinant DNA technology ? Discuss  
 its importance in the production of improved  
 varieties of plants. 10
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