

**B.N. Bandodkar College of Science, Thane**  
**S.Y.B.Sc Third Semester Examination 2013**  
**USBO301**

Duration 2 hrs

Max Marks-60

- N.B. 1) All Questions are compulsory.  
 2) Figures to right indicate full marks.  
 3) Draw neat and labeled diagrams wherever necessary
- Q1) a) Sketch, label and describe the sporophyte of *Anthoceros* 07  
           **Or**  
 a) Give an account of internal structure of *Anthoceros* thallus and add a note on systematic position 07  
 b) Describe the male and female conceptacles in *Sargassum* 08  
           **Or**  
 b) Describe the external features of *Batrachospermum* and add a note on systematic position 08
- Q2) a) Explain rust disease with reference to causal organism and symptoms on secondary host (barberry) 07  
           **Or**  
 a) Explain the powdery mildew disease with reference to causal organism, symptoms and control measures. 07  
 b) Give an account of sexual reproduction in *Agaricus* 08  
           **Or**  
 b) Describe an asexual reproduction in *Erysiphe*. 08
- Q.3) a) Give the classification, distinguishing characters of family Myrtaceae 07  
           **Or**  
 a) Describe the morphological peculiarities and two plants of economic importance of family Brassicaceae (Cruciferae) 07  
 b) Describe the morphological peculiarities and two plants of economic importance of family Tiliaceae 08  
           **Or**  
 b) With reference to taxonomy comment on Nomenclature 08
- Q.4) a) Answer any three of the following in one word/ sentence: 03  
       1. What is glomerule?  
       2. What is the common name of *Anthoceros*?  
       3. Mention any two rust resistant varieties of wheat crop.  
       4. What is rhizomorph?  
       5. *Terminalia bellerica* (Beheda) belongs to which family?  
       6. Give the botanical name of Rangoon creeper (Madhumalati)
- Q.4) b) Attempt any two of the following: 12  
       1. Describe internal structure of Air bladder in *Sargassum*.  
       2. With reference to taxonomy comment on Systematics  
       3. Explain the structure of mycelium in *Erysiphe*.  
       4. Discuss physical, chemical and biological control measures of rust disease.

—X —X —