

B. N. Bandodkar College of Science, Thane
F. Y. B. Sc. (Sem III) Examination 2014-15
Semester III October 2014

USBO301

Duration 2^{1/2} Hrs

Total Marks 75

- N.B. 1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Draw neat labelled diagrams wherever necessary.
- Q.1 a) Sketch label and describe the male conceptacle of *Sargassum*. 10
OR
a) Draw, label and describe the internal structure of thallus of *Anthoceros*. 10
b) Give an account of sexual reproduction in *Batrachospermum*. 10
OR
b) Describe the external thallus structure of *Sargassum*. 10
- Q.2 a) Discuss in detail the asexual reproduction in *Erysiphe*. 10
a) Describe rust disease with reference to causal organism, symptoms on primary host and control measures. 10
b) Write down the classification of *Agaricus* and explain basidiocarp of *Agaricus* in detail. 10
b) Explain rust disease with reference to causal organism, symptoms on secondary host and control measures. 10
- Q.3 a) Describe the morphological peculiarities and two plants of economic importance of family Combretaceae. 10
OR
a) Give the classification and distinguishing characters of family Cruciferae. 10
b) Describe the morphological peculiarities and two plants of economic importance of family Tiliaceae. 10
OR
b) With reference to taxonomy comment on nomenclature. 10
- Q.4 Attempt any three of the following: 15
a) Write a note on T.S. of air bladder in *Sargassum*.
b) Give the systematic position and external features of *Anthoceros*.
c) Explain the structure of mycelium in *Erysiphe*.
d) Write a note on cleistothecium of *Erysiphe*.
e) Give economic importance of family Cruciferae.
f) With reference to taxonomy comment on Systematics.