

B. N. Bandodkar College of Science, Thane
F. Y. B. Sc. (Sem I) Examination 2014-15
Semester I October 2014
USBO101

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 *Nostoc* filament. 10
- OR
- a) Describe the different forms of asexual reproduction in *Nostoc*. 10
- b) Discuss sexual reproduction in *Spirogyra* 10
- OR
- b) Discuss the economic importance of *Gelidium* and *Spirulina*. 10
- Q.2 a) Explain asexual reproduction in *Rhizopus*. 10
- OR
- a) Discuss sexual reproduction in *Aspergillus*. 10
- b) Discuss the positive role of fungi in medicine and agriculture. 10
- OR
- b) Give a detailed account of parasitism as a mode of nutrition in fungi. 10
- Q.3 a) Explain the different methods of vegetative reproduction in *Riccia*. 10
- OR
- a) Give position and structure of female sex organ in *Riccia*. 10
- b) Draw, label and describe the internal structure of thallus of *Riccia*. 10
- OR
- b) With a labelled diagram describe the sporophyte of *Riccia*. 10
- Q.4 Attempt **any three** of the following: 15
- a) Explain the economic importance of *Ulva*.
- b) Write a note on the occurrence of *Nostoc* species.
- c) Explain the negative role of fungi in causing diseases on plants and human beings.
- d) Discuss saprophytism as a mode of nutrition in fungi.
- e) Describe rhizoids and scales in *Riccia*.
- f) Describe the habitat of *Riccia*.