

**B.N.Bandodkar College of Science**  
**T.Y.B.Sc. Preliminary Examination- Feb 2012**  
**Botany, Paper I**

Time 3 Hours

Total Marks 100

N.B.: 1.All questions are compulsory.

2. All questions carry equal marks.

3. Draw neat, labelled diagrams wherever necessary.

1. Answer **any four** of the following:-

- (a) Discuss biodeterioration of textile material.
- (b) Describe vegetative reproduction in *Chara*.
- (c) Explain the structure of stroma of *Xylaria*.
- (d) Describe *Ganoderma*.
- (e) Explain the structure of gemma cup of *Marchantia*.
- (f) Describe the transverse section of *Lycopodium* stem.

2. Attempt **any two** of the following:-

- (a) Define aero microbiology. Discuss its role in agricultural science.
- (b) Enlist the different microbial components of atmosphere. Describe bacterial and lichen components in detail.
- (c) Discuss the various aero microbiological techniques used for air sampling. Describe any one method studied by you in detail.

3. Attempt **any two** of the following:-

- (a) Describe sexual reproduction in nannandrous species of *Oedogonium*.
- (b) Describe the structure of thallus in *Polysiphonia*.
- (c) Discuss habitat diversity in algae.

4. Attempt **any two** of the following:-

- (a) Describe asexual reproduction in *Albugo*.
- (b) Discuss the stages of *Puccinia* found on primary host.
- (c) Discuss biological control of plant diseases.

5. Attempt **any two** of the following:-

- (a) Describe the structure of sporophyte of *Pellia*.
  - (b) Discuss the external and internal structure of spike of *Ophioglossum*.
  - (c) Define sorus. Discuss evolution of the sorus in pteridophyta.
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