

**FACULTY OF SCIENCE****B.Sc. I Year Examination March / April 2015****Subject: Botany****Paper: I****Microbial Diversity, Cryptogams and Gymnosperms****Time: 3 hours****Max. Marks: 100****Section: A (5 x 8=40)  
(Short Answer Type)****Note: Answer any FIVE Questions. Attempt at Least ONE Question from each unit.  
Answer should not exceed 20 Lines for each question. Draw well labeled  
diagrams wherever necessary.****Unit-I**

- 1 Write on plant disease transmission of viruses.
- 2 Describe the structure and life history of Nostoc.

**Unit-II**

- 3 Give brief account of asexual reproduction in algae.
- 4 Give an account on plant diseases caused by Fungi.

**Unit-III**

- 5 Write about hydrophytic and Xerophytic characters of *Equisetum*.
- 6 Describe elaters and pseudo elaters giving examples from Bryophytes.

**Unit-IV**

- 7 What is geological time scale?
- 8 Write a short note on Bennettites.

**Section: B (4 x 15 =60)  
(Essay Answer Type)****Note: Answer ALL Questions. Answer should not exceed 80 lines for each Question.  
Draw Well Labelled diagrams wherever necessary.**

- 9 (a) Give a detailed account of reproduction and economic importance of Bacteria.  
OR  
(b) Give a detailed account of mycoplasma and its economic importance.
- 10 (a) Describe the lifecycle of *Saccharomyces* and add a note on its economic importance.  
OR  
(b) Write a systematic position and life history of *Polysiphonia*.
- 11 (a) Write in detail on the evolution of stele in pteridophytes.  
OR  
(b) Give an account on the life cycle *Marchantia*.
- 12 (a) Write in detail about the general characters and classification of Gymnosperms.  
OR  
(b) Describe the Life cycle of *Gnetum* with well labelled diagrams

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