

**M.Sc Botany - I Semester**  
**Practical Examination**  
**Paper-I: Phycology**

**Time: 3 Hours**

**Max. Marks: 50**

1. Identify the algal components **A, B, C D** from the given mixture. Describe their characters with well labeled diagram and assign them to their taxonomic position **16 Marks**
2. Identify the algal species **E, F** from the given mixture. Describe their characters with well labeled diagrams and assign them to their taxonomic position **6 Marks**
3. Identify the given slides **G, H and I** **9 Marks**
4. Identify the specimens **J, K, and L** **9 Marks**
5. Record and Viva-voce **(5+5) 10 Marks**

## M.Sc BOTANY I Semester Practical Examinations

### Paper-II: Mycology and Microbiology

Time: 3 Hours

Max. Marks: 50

1. Take a section of infected plant material **A** and prepare a temporary mount. Describe its characters with well labeled diagram. Assign the pathogen to its systematic position. **14 Marks**
2. Stain the given bacteria (**B**) and identify giving reasons **8 Marks**
3. Identify the given slides **C, D** and **E** giving reasons **9 Marks**
4. Identify the specimens **F, G** and **H** by giving reasons **9 Marks**
5. Record and Viva-voce **(5+5) 10 Marks**

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**Paper-III: Bryophyta and Pteridophyta**

**Time: 3 Hours**

**Max. Marks: 50**

**Note: Leave all the preparations for evaluation by the examiner**

1. Describe the morphology and anatomy of the given material -  
    **A** (Bryophyta) by preparing temporary mount and identify it. **10 Marks**
2. Describe the morphology and anatomy of the given material  
    **B** (Pteridophyta) by preparing single stained mount. Draw diagrams and  
    identify giving reasons **12 Marks**
3. Identify the specimens **C, D** and **E** by giving reasons  
    (Pteridophyta – 2    Bryophyta - 1) **9 Marks**
4. Identify the slides **F, G** and **H** (Bryophyta - 1, Pteridophyta – 2) **9 Marks**
5. Record and viva-voce **(5+5)** **10 Marks**

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**Practical Examination**

**Paper-IV: Taxonomy of Angiosperms and Medicinal Botany**

**Time: 3 Hours**

**Max. Marks: 50**

1. Prepare an Indented key for the given leaf material “A-H” **8 Marks**
2. Identify the twig “I” up to species level with the help of flora **12 Marks**
3. Assign the given flowers / floral parts “J” and “K” to their respective families giving reasons **10 Marks**

**OR**

Solve the given nomenclatural Problems (2)

4. Comment on “L” and “M” and add a note on their medicinal importance **10 Marks**
5. Record, Herbarium and Viva-voce **10 Marks**  
(3 + 4 + 3)