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

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

3. Identify the given slides G, H and I

4. Identify the specimens J, K, and L

5. Record and Viva-voce

Total Marks: 50
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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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Practical Examination

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)