

SET A

Course: B.Sc. (Programme) Life Sciences (LOCF)

Semester: 1

Paper: Biodiversity (Microbes, Algae, Fungi and Archegoniatae)

Unique Paper code: 42161101

Time: (3+1 hour)

Maximum Marks: 75

Attempt any four questions. All questions carry equal marks

1. Bryophytes are known as amphibians of the plant kingdom. Justify the statement with suitable examples. Describe life cycle of *Funaria* with the help of suitable diagrams. **18.75**
2. Which group of organisms possess the lytic and lysogenic cycle for reproduction? Describe these cycles and also enumerate the differences between them. **18.75**
3. In a water body; the members of Cyanophyta, Chlorophyta and Phaeophyta are growing. How will you distinguish them? Cyanophyta, Chlorophyta and Phaeophyta members are variously important for human beings. Justify the statement with suitable examples. **18.75**
4. Pteridophytes are successful land plants. Why? Explain the theory of stelar evolution with diagrams. **18.75**
5. Discuss the xerophytic adaptations present in *Pinus*. How will you distinguish the male and female cones of *Pinus*? **18.75**
6. You are visiting a wheat field as a plant pathologist. Farmers showed you the wheat plants with brown rust like spots on stem. Which possible fungus is causing this infection? How will you narrate the life cycle of the fungus? **18.75**



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