



**THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED**

**Q.1. Give short and to the point answers of the following: (6x5=30)**

1. What is **evolution**? Discuss modern concepts of evolution with suitable examples.
2. Define **Tracheophytes**. Describe the possible adaptations and modifications by Early Land Plants to colonize the terrestrial Environment.
3. Differentiate clearly between **Proto-xylem** and **Meta-xylem** and their maturation pattern with the help of suitable examples and diagrammes.
4. What do you know about **Giant Carboniferous Lycopside**. Highlight their importance.
5. When and how **Angiosperms** evolved? Describe briefly with suitable examples.
6. Differentiate clearly between a **Sorus** and **Indusium** with the help of suitable examples and diagrams. Which one is more advance?

**Q.2. Answer the following questions. (3x10=30)**

1. Why **Lycopside** are called **Microphylophytes**? Describe Synthetic Characteristics of **Lycopside** and their phylogenetic importance.
2. Compare and Contrast the Synthetic Characters of **Equisetaceae** and **Calamitaceae** along with their **Evolutionary Implications**.
3. Discuss the Evolutionary significance of **Gnetales** with evidences.