



Q.1. Give short answers of the following:

(6x5=30)

1. Define **evolution**? Differentiate between **Convergent** and **Divergent** Evolution with the help of suitable examples.
2. When and how **Early Vascular Land Plants** evolved. Describe their any five synthetic characteristics.
3. Why **Isoetales** are called the reduction series of **Lycopoids**. Discuss briefly with suitable examples.
4. Compare and contrast the Strobilus of *Sphenophyllum* and *Equisetum*.
5. How would you differentiate between **Manoxylic wood** and **Pycnoxylic wood**.
6. Briefly explain the process of **Microsporogenesis** and **Megasporogenesis** in **Angiosperms**.

Q.2. Answer the following questions.

(3x10=30)

1. Discuss in detail evolution of **Steler System** in **Tracheophytes**. Describe various types of steles with the help of neat and labeled diagrammes.
2. Make a comparison of **Eusporangiate** and **Leptosporangiate Ferns** with respect to their development and origin.
3. Compare and contrast the **Gingkophytes** and **Gnetophytes**.