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

**Q.1. Answer the following short questions: (15x2=30)**

- 1. Define plant systematics and plant taxonomy.**
- 2. Give the aims & objectives of plant classification.**
- 3. Differentiate between parenchyma and collenchyma tissues.**
- 4. Why DNA is important to study phylogenetic analysis.**
- 5. Define developmental embryology.**
- 6. What is the difference between racemose and cymose inflorescence? Give examples.**
- 7. Write the botanical names of five members of family Poaceae.**
- 8. Write floral formula and floral diagram of *Solanum nigrum* L.**
- 9. Compare Monocot and Dicot plants with examples.**
- 10. What is the chemical composition of plant cell wall?**
- 11. What is meristem? Give its characteristics features.**
- 12. Differentiate between Xylem & Phloem in plants.**
- 13. Differentiate between microsporophyte and microgametophyte of *Capsella bursa-pastoris* L.**
- 14. What is endospore? Write down its function.**
- 15. Write down role of vascular cambium in growth of plants.**

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

- 1. a) Define binomial nomenclature. Write down its principles and rules.  
b) Discuss in detail about phylogenetic system of classification.**
- 2. Write down detail note on development of *Capsella bursa-pastoris*.**
- 3. Define simple tissues. Discuss their various types in detail.**