



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

Q.1. Answer the following short questions: (6x5=30)

- i. Define aestivation? Differentiate valvate and imbricate aestivation.
- ii. What is Type Method? What are basic rules for Author Citation?
- iii. What are simple tissues? Give their types and functions.
- iv. What is meant by artificial, natural and phylogenetic system of plant classification?  
Give noteworthy features of Takhtajan's system of classification.
- v. Write a note on economic importance of family Asteraceae? Also describe its inflorescence in detail.
- vi. What is cell wall? Give its types and chemical composition.

Answer the following questions: (3x10=30)

**Q. No. 2: What is secondary growth? Briefly describe secondary growth of stem with the help of diagram.**

**Q. No. 3: Draw and label embryo sac of an angiosperm. Describe the process of development of dicot embryo in *Capsella bursa-pastoris*.**

**Q. No. 3: What are complex tissues in plants? Explain structure and function of Secondary xylem in detail.**