



THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

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

- i. What is meant by effective and valid publication? Explain.
- ii. What are basic rules for Author Citation?
- iii. What are parenchyma tissues? Give their function.
- iv. Differentiate between vessel members and tracheids.
- v. What are noteworthy features of Engler and Prantl's system of classification?
- vi. What is inflorescence? Differentiate Racemose & Cymose inflorescence.
- vii. What is cell wall? What are its basic functions in plants?
- viii. What is an ovule? Describe its different types.
- ix. Write down characteristic features of family Brassicaceae/Cruciferae.
- x. Describe inflorescence of family Asteraceae.
- xi. What is binomial nomenclature? Explain.
- xii. Define Taxonomy. What are its basic components?
- xiii. Differentiate natural and phylogenetic system of classification.
- xiv. What is economic importance of family Poaceae.
- xv. What is placentation? What are its different types?

Answer the following questions:

Q. No. 2: Draw and label embryo sac of an angiosperm. Describe the process of development of dicot embryo in *Capsella bursa-pastoris*. (10)

Q. No. 3: What is meant by Axial and Ray systems in Secondary xylem? Explain in detail. (10)

Q. No. 4 (a): What are stomata? Describe various types of stomata in detail. (05)

(b): What are meristems? Describe various types of meristems in plants? (05)