



THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

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

- I. Define Scalariform conjugation. How it occurs in *Spirogyra*?
- II. Define Protostele? Draw and describe its different types in plants.
- III. Draw and describe life cycle of *Phyllactinia* (Powdery mildews).
- IV. Differentiate Plurilocular and Unilocular sporangia in *Ectocarpus* with the help of labelled diagrams.
- V. Describe triphasic life cycle in *Polysiphonia*.
- VI. Differentiate Centric & Pennate Diatoms. What is their importance?

Answer the following questions.

- Q. No. 2: Draw and describe life cycle of *Pinus*. (10)
- Q. No. 3: What are lichens? Describe various types on the basis of thallus structure and habitat type. (10)
- Q. No. 4: a). Draw and describe life cycle of *Marsilea*. (05)
- b). Explain reproduction in *Chara* with the help of labeled diagrams. (05)