



THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Q.1. Answer the following short questions:

(6x5=30)

- i. What is meant by alternation of generation? Explain it with the life cycle of *Funaria*.
- ii. Draw life cycle of rust fungi. Write a note on their economic importance.
- iii. Draw and Describe life cycle of *Ectocarpus*.
- iv. Describe evolutionary significance of *Selaginella*? How it is related to seed habit?
- v. Draw and describe structure and function of Globule and Nucule in Chara.
- vi. Describe life cycle of SMUT fungi. Give economic importance of this group of fungal pathogens.

Q.2. Answer the following questions.

- i. What are noteworthy features of gymnosperms? Why *Ephedra* plant is known as connecting link between angiosperms and gymnosperms? Explain? (10)
- ii. What are red algae? Describe triphasic life cycle of *Polysiphonia* in detail. (10)
- iii. a) What are plant viruses? Write a note on their methods of reproduction. (5)
b) Draw and describe asexual and sexual reproduction in *Mucor*. (5)