2024
(Session : 2022-26)

Time : 3 hours

Full Marks : 75

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer from both the Groups as directed.

Group – A
(Very Short-answer Type Questions)
(Compulsory)

1. Answer the following questions : 1×10 = 10

   (a) What is intercalary meristem ?

   (b) Write the function of stomata.

   (c) What are lenticels ?

   (d) What are sap woods ?

(e) Write any two adaptive features of Anemophily flower.

(f) Define triple fusion.

(g) Give one example of Dicot seed.

(h) Write any one morphological adaptation of Hydorphytes.

(i) Name any one Indian embryologist.

(j) Define Apomixis.

2. Write short note on any **one** of the following : 1×5 = 5

(a) Function of cambium

(b) Microsporogenesis

Group – B

(Long-answer Type Questions)

Answer any **four** questions of the following : 15×4 = 60

3. What is Periderm ? Explain its development and composition.

4. With the help of labelled diagram describe the secondary growth in any dicotyledonous root studied by you.

5. Define double fertilization. Explain the process of double fertilization in an angiospermic plant.

6. With the help of suitable diagram describe the development of a typical dicot embryo.

7. What is Endosperm ? Describe the type and function of endosperm.

8. Write short notes on any **two** of the following :

(a) Anatomical adaptation of xerophyte

(b) Types of permanent tissue

(c) Cross pollination and its significance

(d) Causes and application of polyembrony

(e) Type of ovules