

2024

(Session : 2023-27)

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 : $1 \times 5 = 5$

(a) The dominant phase in the life cycle of bryophytes is the _____ generation.

(b) In **Cycas**, the male reproductive structure is called _____.

- (c) Who is known as father of Indian paleobotany ?
- (d) What are two main types of mycorrhizal association ?
- (e) Which pteridophytes is commonly known as "Club Moss" ?
2. What are key characters that distinguish bryophytes from other higher plants. 5
3. Discuss the methods used for fossil preservation with example. 5

Group – B

Answer any four questions of the following :

15×4 = 60

4. Give an account of the morphology, anatomy and life cycle found in *Cycas*.
5. Give a detailed account on range of thallus organization found in bryophytes with example.
6. Discuss the structure, type and function of mycorrhiza in plants, also mention its ecological and agricultural significance.

WQ – 45/1

(2)

Contd.

7. Write about role of fossils and also discuss about geological time scale.
8. Explain heterospory in pteridophytes highlighting its role in the evolution of the seed habit.
9. Discuss the ecological and economic importance of pteridophytes in detail.



WQ – 45/1 (500)

(3)

FYUGP(II) — Bot
(MJ – 2)