

- vii) Adiantum is commonly known as -----.
- | | |
|---------------------|------------------|
| a) Water fern | b) Liverworts |
| c) Maiden-Hair Fern | d) None of these |
- viii) Cycas is popularly known as -----.
- | | |
|--------------|---------------|
| a) Date palm | b) Areca palm |
| c) Sago palm | d) Fan palm |

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b) Attempt any six.

- i) What is ligule?
- ii) What are archegoniates?
- iii) Give any one medicinal use of Sphagnum.
- iv) What is protostele?
- v) What are corolloid roots?
- vi) Enlist the classes of bryophyta.
- vii) How many types of rhizoids occur in Riccia? name them.
- viii) What is monoecious plant?

2. Attempt the following any six.

12

- i) What is anaemophilous type of pollination?
- ii) Give function of peristome teeth of Funaria.
- iii) What are paraphyses?
- iv) What is pycnoxylic wood?
- v) Write any two distinguishing characters of division psilophyta.
- vi) Sketch and label sporangium of Adiantum.
- vii) Give systematic position of Riccia.
- viii) What are sori?

ix) Give any two examples of class Musci.

3. Attempt **any four** of the following. 12

- i) Describe sporophyte of Riccia.
- ii) Give general characters of Pteridophytes.
- iii) Describe female cone of Pinus.
- iv) Draw and label external morphology of Adiantum.
- v) Describe general characters of Bryophyta.
- vi) Describe any two types of siphonostele with labelled diagrams.

4. Attempt **any three** of the following. 12

- i) Describe sexual reproduction in Cycas.
- ii) Give economic importance of gymnosperms.
- iii) Describe L. S. of strobilus in Selaginella.
- iv) Give systematic position of Funaria.
- v) Draw a labelled diagram of L.S. of ovule of Pinus.

5. Attempt **any two** of the following. 12

- i) Give outline classification of Pteridophyta according to G. M. Smith (1955) upto classes giving reasons by giving at least 2 examples of each class.
- ii) Give economic importance of Bryophyta.
- iii) With the help of neat labelled diagram describe internal morphology of stem of Pinus.
