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BOTANY PAPER-I : BOT-231
Bryophytes and Pteridophytes
(231401)

Time : Two Hours

Max. Marks : 60

1. Do not write anything on question paper except Seat No.
2. Graph or diagram should be drawn with the black ink pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. Figures to the right indicate full marks.
5. All questions are compulsory.
6. Draw neat diagrams wherever necessary.

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- 1) _____ are commonly called as Mosses.
a) Musci b) Hepaticae
c) Anthocerotae d) Ferns
- 2) Dominant phase in life cycle of Bryophyte is _____.
a) Sporophyte b) Gametophyte
c) Leaves d) Rhizoids.
- 3) Selaginella is an example of _____.
a) Thallophyta b) Pteridophyta
c) Bryophyta d) Gymnosperm
- 4) Funaria is an example of _____.
a) Angiosperm b) Gymnosperm
c) Pteridophyta d) Bryophyta
- 5) Ligules are present beneath the leaf of
a) Riccia b) Selaginella
c) Funaria d) Adiantum
- 6) Leaves are compound in _____.
a) Riccia b) Selaginella
c) Funaria d) Adiantum

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- 7) Spores of Funaria germinate to produce
a) Buds b) Calyx
c) Protonema d) Rhizome.
- 8) Vascular bundle in stem of Selaginella is -----
a) Concentric amphicribal b) Concentric amphivasal
c) Conjoint collateral d) Radial vascular bundle.

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- i) Enlist the two different types of rhizoids of Riccia
- ii) Sketch & label leaf of Selaginella
- iii) What are Peristomial teeth?
- iv) Write any two characters of class Hepaticae.
- v) Describe spores of Riccia.
- vi) What is Protostele?
- vii) What is the function of scales in Riccia?
- viii) What is protonema?

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- i) What is rhizophore in Selaginella?
- ii) Give distinguishing characters of Musci.
- iii) Sketch and label sporangium of Adiantum.
- iv) Write any two distinguishing characters of division psilophyta
- v) Describe occurrence of Selaginella,
- vi) Draw a labelled diagram of internal structure of thallus of Riccia.
- vii) What are Paraphyses?
- viii) Describe male sex organ in Adiantum.

ix) Give any 2 uses of pteridophytes.

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

- Describe general characters of Pteridophytes.
- Sketch and label T.S. of stem of Selaginella.
- Describe sporophyte of Riccia.
- Describe archegonia in Funaria.
- Give systematic position of Adiantum giving reasons.
- Draw and label external morphology of Adiantum.

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

- Describe L.S. of capsule of Funaria.
- Give systematic position of Riccia giving reasons.
- Describe strobilus of Selaginella.
- Describe T. S. of petiole of Adiantum.
- Describe alternation of generation in bryophytes.

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

- Give an outline classification of Pteridophyta according to G. M. Smith giving at least two examples of each class.
- With the help of labelled diagram describe external morphology of Funaria.
- Give economic importance of bryophytes.
