

Seat Number

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Nov-2015



कात - 007

**BOTANY PAPER - I : BOT - 121**  
**Higher Cryptogams**  
**(12145)**

P. Pages : 3

Time : Two Hours

Max. Marks : 40

Instructions to Candidates :

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. Draw neat labelled diagrams wherever necessary.
5. All questions are compulsory.

1. Solve any eight.

8

- i) Bryophytes prefer to grow.
  - a) In dry soil
  - b) In water
  - c) On dry rock
  - d) At moist and shady places
- ii) Spore mother cell in bryophytes is
  - a) Haploid
  - b) Diploid
  - c) Triploid
  - d) Tetraploid
- iii) Elaters of Equisetum arise from
  - a) Epispore
  - b) Middle layer
  - c) Exospore
  - d) Endospore
- iv) Distinct columella is present in the capsule of
  - a) Riccia
  - b) Funaria
  - c) Marchantia
  - d) None of these
- v) Riccia belongs to order-----
  - a) Ricciales
  - b) Marchantiales
  - c) Musci
  - d) Anthocerotales

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2. Attempt any two.

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3. Attempt any two.

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4. a) Attempt any two. 6
- i) Sketch label and describe the internal structure of Equisetum stem.
  - ii) Germination of microspore and development of male gametophyte in Selaginella.
  - iii) Distinguishing features of Pteridophytes.
- b) Protonema in Funaria. 2
5. What is alternation of generation? Describe alternation of generation with reference to Riccia. 8

OR

Give an account of classification of Pteridophytes by G.M.Smith upto classes with at least two examples of each class. 8

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