

April - 2013

Seat
No.

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कर - 026

BOTANY PAPER I (NEW) : BOT-121
Higher Cryptogams

P. Pages : 2

Time : Two Hours

Max. Marks : 40

Instructions to Candidates :

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

1. Attempt **any eight**.

8

- a) In Pteridophytes plant body is diploid and
 - i) Haploid
 - ii) Gametophyte
 - iii) Sporophyte
 - iv) None of these.
- b) In equisetum stele is of type.
 - i) Actinostele
 - ii) Haplostele
 - iii) Siphonostele
 - iv) None of these.
- c) Seta is present in the sporophyte of
 - i) Riccia
 - ii) Anthoceros
 - iii) Funaria
 - iv) None of these.
- d) Riccia belongs to order
 - i) Ricciales
 - ii) Marchantiales
 - iii) Musli
 - iv) Anthocerotales.
- e) Spore producing organ in Selaginella is.
 - i) Rhizome
 - ii) Synangium
 - iii) Sarus
 - iv) Strobilus.
- f) Spores of Funaria germinate to produce.
 - i) Buds
 - ii) Calyx
 - iii) Protonema
 - iv) None.
- g) Elaters of equisetum arise from
 - i) Epispore
 - ii) Middle layer
 - iii) Exospore
 - iv) Endospore

- h) a water fern, used as biofertilizer.
 i) Selaginella ii) Azolla
 iii) Equisetum iv) None.
- i) The common term for class musci is
 i) Mosses ii) Liverworts
 iii) Hornworts iv) Thornworts.

2. Attempt **any four**.

8

- a) Sketch label and describe thallus of Riccia.
 b) Give the systemic position of Equisetum.
 c) Give distinguishing characters of Anthocerotae.
 d) Function of Peristome.
 e) Megasporangium of Selaginella.

3. Attempt **any two**.

8

- i) Sketch label and describe internal structure of Selaginella stem.
 ii) Describe mature sporophyte of Riccia.
 iii) Explain role of Bryophytes in soil conservation.

4. a) Attempt **any two**.

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- i) Structure of antheridium in Funaria.
 ii) Sporangophore in Equisetum.
 iii) Importance of Pteridophytes as biofertilizer.

b) Functions of elaters.

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5. Give an outline classification of Bryophytes by G.M. Smith upto classes with two example of each.

8

OR

What is alternation of generation ? Explain alternation of generation of Selaginella.
