

Seat Number

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April 2015



खजिना - 035

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 diagram wherever necessary.
5. All questions are compulsory.

1. Attempt any eight.

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- i) Riccia is an example of
a) Thallophyta b) Bryophyta
c) Pteridophyta d) Gymnosperm
- ii) in division psilophyta sporophyte consist of underground.....
a) Stem system b) Root system
c) Rhizome & rhizoids d) Bulbil
- iii) are commonly called as mosses.
a) Musci b) Hepaticae
c) Anthocerotae d) Ferns
- iv) Operculum is present in the sporophyte of.....
a) Riccia b) Funaria
c) Marchantia d) Axthoceros
- v) Dominant phage of pteridophyte is
a) Sporophyte b) Gametophyte
c) Rhizoids d) Leaves

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P.T.O

- vi) Female sex organs of selaginella are called
- | | |
|---------------|--------------|
| a) Archegonia | b) Oogonia |
| c) Antheridia | d) Perigonia |
- vii) Legules are present beneath the leaf of
- | | |
|-----------------------|---------------------|
| a) <u>Funaria</u> | b) <u>Riccia</u> |
| c) <u>Selaginella</u> | d) <u>Equisetum</u> |
- viii) Spores of Funaria germinate to produce.....
- | | |
|----------|--------------|
| a) Buds | b) Protonema |
| c) Calyx | d) Rhizome |
- ix) Bryophytes flourish luxuriantly on
- | | |
|---------------|---------------|
| a) Moist soil | b) Dry soil |
| c) Loamy soil | d) Sandy soil |
- x) Carinal canal is present in the stem of
- | | |
|-----------------------|---------------------|
| a) <u>Selaginella</u> | b) <u>Equisetum</u> |
| c) <u>Funaria</u> | d) <u>Riccia</u> |

2. Attempt any four.

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- i) Give distinguishing characters of Musci.
- ii) Rhizophore of selaginella.
- iii) Give systematic position of equisetum.
- iv) Describe sporophyte of Riccia.
- v) What is Heterospory.
- vi) Draw and label external morphology of gametophyte of funaria.

3. Attempt any two.

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- i) Give general characters of pteridophytes.
- ii) Describe antheridial head and structure of antheridia in Funaria.
- iii) Describe strobilus and structure of sporangiophore in equisetum.

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

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- i) Describe the process of fertilization in Riccia.
- ii) Give economic importance of bryophytes.
- iii) Sketch and label L – S of strobilus of equisetum.

b) Sketch and label structure of megasporangium of selaginella.

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5. Give an outline of classification of bryophytes according to G. M Smith giving atleast two examples of each class.

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OR

What is alternation of generation ? Explain alternation of generation in selaginella.
