19/592
M.Sc. (First Semester)
Examination, 2019
Botany
Fourth Paper

(Bryophytes)

Time : Three Hours

Maximum Marks: 100

Note: Answer five questions in all. Short answer type Question No. 1 carrying 40 marks is compulsory. Answer one question carrying 15 marks from each unit.

Note: The answers to short Answer type questions should not exceed 200 words and the answers to long Answer type questions should not exceed 500 words.

P.T.O.

19/592

https://www.mgkvponline.com

- 1. Write short notes on following: $4 \times 10 = 40$
 - (a) Photosynthetic tissue in Bryophytes
 - (b) How will you distinguish between Elaters and Pseudoelaters?
 - (c) Calyptra
 - (d) Antheridium of Porella
 - (e) Dendroceros
 - (f) Similarities between Bryophytes and Algae.
 - (g) Characteristic features of Takakia
 - (h) Sporophyte of Notothylas
 - (i) Rhizome of Polytrichum
 - (j) Amphibios nature of Bryophytes

Unit-I

Describe the economic importance and distribution of Bryophytes in India studied by you.

OR

Explain about evolution of sporophyte in bryophyte.

2

https://www.mgkvponline.com

https://www.mgkvponline.com

Give concise account of the following: 3.

3x5 = 15

- Sporophyte of sphagnum. (i)
- Sporophyte of Polytrichum
- Aposporous gametophyte

OR

Draw well labelled diagrams only:

- L.S. of the apical portion of amtheridial branch of sphagnum
- Internal structure of leaf of sphagnum
- Archegonium of polytrichum.

Unit-III

Describe the structure and development of sex organs in Porella. 15

OR

Describe the classification structure and reproductive organs of Plagiochasma.

P.T.O.

https://www.mgkvponline.com

Unit-IV

By means of outline labelled diagrams illustrate the chief events in the life cycle of 15 Anthoceros.

OR

Write short notes on any three of the follo-5x3 = 15wing:

- Fossil history of Bryophyte
- Phylogemy of Hepaticae (ii)
- Indian Bryologists
- (iv) Notothylas Antheridia

https://www.mgkvponline.com Whatsapp @ 9300930012 Send your old paper & get 10/-अपने पुराने पेपर्स भैजे और 10 रुपये पार्य, Paytm or Google Pay ₹

https://www.mgkvponline.com