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2 SEM TDC BOT M 1

2018

DESCRIPTION OF STREET

(May)

BOTANY

(Major)

Course: 201



(Plant Pathology and Bryophytes)

Full Marks: 48
Pass Marks: 19/14

Time: 2 hours

The figures in the margin indicate full marks for the questions

- 1. (a) Answer the following as directed: $1\times4=4$
 - (i) Which among the following is called 'peat moss'?
 - 1. Polytrichum
 - 2. Sphagnum
 - 3. Anthoceros
 - 4. Riccia

(Choose the correct option)

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(Turn Over)

- (ii) Epiphragm is present in
 - 1. Anthoceros
 - 2. Sphagnum
 - 3. Funaria
 - 4. Polytrichum

(Choose the correct option)

- (iii) Plants can be made disease resistant by treatment with
 - 1. fungicides
 - 2. heat treatment of seeds
 - 3. breeding with wild relatives
 - 4. cultural practices

(Choose the correct option)

(iv) Red rot of sugarcane is caused by the causal organism

(Fill in the blank)

(Continued)

- (b) Write notes on the following: $2\frac{1}{2} \times 4 = 10$
 - (i) Pathogen and pathogenesis
 - (ii) Aflatoxin
- (iii) Elaters and pseudoelaters Aneres the following the
 - (iv) Protonema and gametophore
- 2. Write short accounts on either [(a) and (b)] or 5×2= [(c) and (d)] of the following: 5×2=10
 - (a) Various physical methods of plant disease management
- (b) Distribution of bryophytes in India 8P/672

- Role of enzymes in host parasite interactions in plants
- (d) Ecological importances of bryophytes
- 3. Mention the symptoms, name of the causal and control organism, disease cycle measures of the following diseases (any two): $(1+1+2+2)\times 2=12$
 - Red rot of sugarcane
 - (b) Citrus canker
 - (c) Late blight of potato
 - (d) Loose smut of wheat
- 4. With suitable sketches, compare the thallus structures of Riccia, Marchantia and Anthoceros. Which one is the most primitive in your opinion and why? 9+3=12

Write spore dispersal mechanisms of bryophytes which you have studied. Also mention the economic importance of 9+3=12Sphagnum.