

V / BOT (vi)

2 0 1 5

(5th Semester)

BOTANY

SIXTH PAPER

(Algae, Lichens, Bryophytes)

Full Marks : 55

Time : 2½ hours

(PART : B—DESCRIPTIVE)

(Marks : 35)

*The figures in the margin indicate full marks
for the questions*

1. Give an outline of Fritsch's system of classification of algae.

7

Or

Write a brief note on the characteristic features of major classes of algae.

2. Give an account of the mode of reproduction in chlorophyceae.

7

Or

Discuss the economic importance of algae.

G16/149a

(Turn Over)

(2)

3. Describe the distribution and general characteristic features of lichens. 7

Or

Give an account of the economic importance of lichens.

4. What are bryophytes? Write a note on the general features of bryophytes with suitable examples. 2+5=7

Or

Write a comparative account on the structure of sex organs in *Riccia* and *Polytrichum*. 7

5. Write an essay on progressive evolution of sporophytes in bryophytes. 7

Or

Write accounts on the following : $3\frac{1}{2} \times 2 = 7$

(a) Bryophytes as indicator of pollution

(b) Fossil bryophytes

3. Describe the distribution and general characteristic features of lichens.

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Or

Give an account of the economic importance of lichens.

4. What are bryophytes? Write a note on the general features of bryophytes with suitable examples.

2+5=7

Or

Write a comparative account on the structure of sex organs in *Riccia* and *Polytrichum*.

7

5. Write an essay on progressive evolution of sporophytes in bryophytes.

7

Or

Write accounts on the following :

3½×2=7

(a) Bryophytes as indicator of pollution

(b) Fossil bryophytes

2015

(5th Semester)

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(PART : A—OBJECTIVE)

(Marks : 20)

The figures in the margin indicate full marks for the questions

SECTION—A

(Marks : 5)

Put a Tick (✓) mark against the correct answer in the brackets provided : 1×5=5

1. Polysiphonia exhibits

(a) diplontic life cycle ()

(b) diplohaplontic life cycle ()

(c) haplobiontic life cycle ()

(d) diplobiontic life cycle ()

2. Whiplash flagella are

- (a) smooth surfaced ()
- (b) feathery ()
- (c) flagellum with a terminal fibril ()
- (d) None of the above ()

3. In *Riccia*, the sporophyte

- (a) is divisible into foot, seta and capsule ()
- (b) is divisible into foot and capsule ()
- (c) does not contain foot and seta ()
- (d) the capsule is absent ()

4. Theory of progressive evolution of sporophytes in bryophytes was advocated by

- (a) Evans (1939) ()
- (b) Goebel (1930) ()
- (c) Bower (1908-35) ()
- (d) Kashyap (1919) ()

(3)

5. Lichens growing on soil are grouped as

(a) corticoles ()

(b) saxicoles ()

(c) terricoles ()

(d) None of the above ()

(4)

SECTION—B

(Marks : 15)

Write notes on the following :

3×5=15

1. Akinetes

(5)

2. Isomorphic alternation of generation

(6)

3. Crustose lichen

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3. Crustose lichen

4. Protonema

(8) .

5. Apophysis

G16—350/149

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