

**2 0 1 6**

( 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.** Write a detailed note on pigmentation of algae. 7

*Or*

Describe the characteristic features of Cyanophyceae. 7

- 2.** What type of life cycles are found in Chlorophyceae? Supplement your answer with suitable examples. 7

*Or*

Give a comprehensive account of the mode of reproduction found in Phaeophyceae. 7

- 3.** What is lichen? Write a brief description on the following types of lichen : 1+(2+2+2)=7

(a) Crustose

(b) Fruticose

(c) Foliose

*Or*

Describe the methods of reproduction in lichen. 7

- 4.** Write the classification of bryophytes in detail. 7

*Or*

With the help of labelled diagram, compare the sporophyte of *Pellia* and *Sphagnum*. 7

- 5.** Write a brief account of origin of bryophytes. 7

*Or*

Give comparative account of the position and structure of archegonia of *Riccia* and *Pellia*. 7

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Subject Code : **V**/BOT (vi)

Booklet No. **A**

Date Stamp .....

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**To be filled in by the Candidate**

DEGREE 5th Semester  
(Arts / Science / Commerce /  
..... ) Exam., **2016**

Subject .....

Paper .....

**To be filled in by the  
Candidate**

DEGREE 5th Semester  
(Arts / Science / Commerce /  
..... ) Exam., **2016**

Roll No. ....

Regn. No. ....

Subject .....

Paper .....

Descriptive Type

Booklet No. B .....

**INSTRUCTIONS TO CANDIDATES**

1. The Booklet No. of this script should be quoted in the answer script meant for descriptive type questions and vice versa.
2. This paper should be **ANSWERED FIRST** and submitted within 45 minutes of the commencement of the Examination.
3. While answering the questions of this booklet, any cutting, erasing, over-writing or furnishing more than one answer is prohibited. Any rough work, if required, should be done only on the main Answer Book. Instructions given in each question should be followed for answering that question only.

Signature of  
Scrutiniser(s)

Signature of  
Examiner(s)

Signature of  
Invigilator(s)

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**V/BOT (vi)**

**2 0 1 6**

( 5th Semester )

**BOTANY**

SIXTH PAPER

**( Algae, Lichens, Bryophytes )**

( 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.** Alginic acid is obtained from

(a) Chlorophyceae (    )

(b) Phaeophyceae (    )

(c) Rhodophyceae (    )

(d) Myxophyceae (    )

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( 2 )

2. Chlorophyll b is found only in

- (a) Phaeophyceae (    )
- (b) Rhodophyceae (    )
- (c) Xanthophyceae (    )
- (d) Chlorophyceae (    )

3. The mode of life of lichen is

- (a) saprophytic (    )
- (b) parasitic (    )
- (c) symbiotic (    )
- (d) autotrophic (    )

4. Lepton mantle in *Polytrichum* represents

- (a) rudimentary pericycle (    )
- (b) starch layer (    )
- (c) physiological phloem (    )
- (d) physiological xylem (    )

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( 3 )

5. Columella is a part of

(a) capsule ( )

(b) seta ( )

(c) foot ( )

(d) rhizome ( )

( 4 )

SECTION—B

( *Marks* : 15 )

Write notes on the following :

3×5=15

**1.** Aplanospores

**( 5 )**

**2.** Algal biofertilizer

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( 6 )

**3. Isidium**

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( 7 )

4. Retort cells

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( 8 )

**5. Elaters and pseudoelaters**

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