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(1st Semester)

BOTANY

FIRST PAPER

(**Cryptogams**)

Full Marks : 55

Time : 2½ hours

(PART : B—DESCRIPTIVE)

(Marks : 35)

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

1. Write on the distinguishing characters of Fungi. 7

Or

Write in detail the characteristic features of bryophytes.

2. Describe briefly the asexual reproduction in *Ectocarpus*. 7

Or

Briefly describe any *two* of the following :
3½×2=7

- (a) Reproduction in *Nostoc*
(b) Main characteristics of Rhodophyceae
(c) Vegetative structure of *Volvox*

3. Describe in brief the stages of pycnial and aecial in *Puccinia graminis*. 7

Or

Write brief notes on any *two* of the following :
3½×2=7

- (a) Important characteristics of Basidiomycotina
(b) Sexual reproduction in *Peziza*
(c) Main characteristics of Deuteromycotina

4. Write a note on the sporogonium of *Anthoceros*. 7

(3)

Or

Give brief accounts on any *two* of the following : $3\frac{1}{2}\times 2=7$

- (a) Main characteristics of Hepaticopsida
- (b) Alternation of generation in Bryophyte
- (c) Vegetative reproduction in *Funaria*

5. Give an account of different types of stele found in pteridophytes. 7

Or

Write notes on any *two* of the following : $3\frac{1}{2}\times 2=7$

- (a) Characteristics of Lycopsidea
- (b) Gametophyte of *Psilotum*
- (c) Sporophyte of *Selaginella*

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Subject Code : **I**/BOT (i)

Booklet No. **A**

Date Stamp

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To be filled in by the Candidate

DEGREE 1st Semester
(Arts / Science / Commerce /
.....) Exam., **2016**

Subject

Paper

To be filled in by the Candidate

DEGREE 1st 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, overwriting 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)*

/23

I/ BOT (i)

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(1st Semester)

BOTANY

FIRST PAPER

(**Cryptogams**)

(PART : A—OBJECTIVE)

(Marks : 20)

The figures in the margin indicate full marks for the questions

SECTION—I

(Marks : 5)

Tick (✓) the correct answer in the brackets provided : 1×5=5

1. Pteridophytes differ from other cryptogams in having

(a) chlorophyll ()

(b) rhizoid ()

(c) sexual organs ()

(d) vascular tissue ()

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(2)

2. *Alternaria* is a member of

(a) Mastigomycotina ()

(b) Zygomycotina ()

(c) Ascomycotina ()

(d) Deuteromycotina ()

3. The dominant generation in pteridophyte is

(a) haploid ()

(b) gametophytic ()

(c) diploid ()

(d) triploid ()

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(3)

4. Kelp is found in

(a) Chlorophyceae ()

(b) Cyanophyceae ()

(c) Xanthophyceae ()

(d) Phaeophyceae ()

5. In *Anthoceros*, *Nostoc* colonies occur in

(a) upper epidermis ()

(b) mucilage cavities ()

(c) guard cells ()

(d) lower epidermis ()

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(4)

SECTION—II

(Marks : 15)

Write on the following in brief :

3×5=15

1. Heterothallism

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(5)

2. Agar-agar

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(6)

3. Zygosporc

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(7)

4. Thallus of *Marchantia*

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(8)

5. Heterospory

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