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(2nd Semester)

BOTANY

SECOND PAPER

(Phanerogams)

Full Marks : 55

Time : 2½ hours

(PART : B—DESCRIPTIVE)

(Marks : 35)

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

- 1.** Give the classification of gymnosperms. 7

Or

Describe the morphology and reproduction
of *Gnetum* with neat diagram. 7

- 2.** Describe the distinguishing features of any
one of the following families : 7

(a) Asteraceae

(b) Poaceae

(c) Solanaceae

- 3.** Describe the structure of anomalous
secondary growth of *Bignonia* with suitable
diagram. 7

Or

Describe the anatomy of a dicotyledonous
root with neat labelled diagram. 7

- 4.** What is an endosperm? Describe the
development of cellular endosperm with
suitable diagram. 2+5=7

Or

What is microsporangium? Give an account
on microsporogenesis with diagrams. 2+5=7

- 5.** Write notes on any *two* of the following
mentioning their scientific names, families
and uses : 7

(a) Cereals-yielding plants

(b) Spices-yielding plants

(c) Fats and oil-yielding plants

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Subject Code : BOT/II/02

Booklet No. A

Date Stamp

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To be filled in by the Candidate

DEGREE 2nd Semester
(Arts / Science / Commerce /
.....) Exam., **2016**

Subject

Paper

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.**

To be filled in by the Candidate

DEGREE 2nd Semester
(Arts / Science / Commerce /
.....) Exam., **2016**

Roll No.

Regn. No.

Subject

Paper

Descriptive Type

Booklet No. B

*Signature of
Scrutiniser(s)*

*Signature of
Examiner(s)*

*Signature of
Invigilator(s)*

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BOT/II/02

2 0 1 6
(2nd Semester)

BOTANY

SECOND PAPER

(Phanerogams)

(PART : A—OBJECTIVE)

(Marks : 20)

The figures in the margin indicate full marks for the questions

SECTION—A

(Marks : 5)

Select the correct answer by putting a Tick (✓) mark in the brackets provided : 1×5=5

1. Coralloid roots are found in

(a) *Pinus* ()

(b) *Cycas* ()

(c) *Gnetum* ()

(d) All of the above ()

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(2)

2. Fruit modified into berry called pepo is found in

(a) Cucurbitaceae ()

(b) Rosaceae ()

(c) Poaceae ()

(d) Lamiaceae ()

3. Bundle sheath is present in the stem of

(a) dicotyledons ()

(b) monocotyledons ()

(c) both monocotyledons and dicotyledons ()

(d) None of the above ()

4. Double fertilization gives rise to

(a) antipodal cells ()

(b) zygote ()

(c) synergid ()

(d) All of the above ()

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(3)

5. Fibre-yielding plant is

- (a) *Camellia* sp. ()
- (b) *Corchorus* sp. ()
- (c) *Helianthus* sp. ()
- (d) *Cuminum* sp. ()

(4)

SECTION—B

(Marks : 15)

Answer the following questions in brief :

3×5=15

1. Write on female cone of *Pinus*.

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(5)

2. What are the characteristic features of flower of Brassicaceae?

(6)

3. What are synergids?

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(7)

4. Differentiate between dorsiventral and isobilateral leaves.

(8)

5. Describe any one timber-yielding plant with scientific name and family.

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