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8074—B73—II SS—MAY 2019

SECOND SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2019

BOTANY—(Optional)

: Three Hours

Maximum : 80 Marks

Answer all questions.

Draw diagrams wherever necessary.

Answer any *ten* of the following :

- 1 Tuberculated rhizoids.
- 2 Prothallus.
- 3 Dwarf shoot.
- 4 Compression.
- 5 Stomium.
- 6 Solenostele.
- 7 Perigynium.
- 8 Microsporophyll.

- 9 Compression.
- 10 Columella.
- 11 Circinate vernation.
- 12 Devonian era.

(10 × 2 = 20 marks)

Answer any *six* of the following :

- 13 Describe T.S. of *Marchantia* thallus.
- 14 What is protostele ? Explain different types of protostele.
- 15 Describe *Lepidocarpon*.
- 16 Explain T.S. of coralloid root of *Cycas*.
- 17 Describe the structure of porella sporophyte.
- 18 Describe the L.S. of male cone of *Pinus*.

- 19 Explain T.S. of Synangium of Psilotum.
20 Describe L.S. of spike of Ophioglossum.

(6 × 5 = 30 marks)

- III. 21 Explain the V.S. of Anthoceros sporophyte.

Or

Explain the evolutionary significance of Bryophytes.

(1 × 10 = 10 marks)

- 22 Describe the external features of Equisetum sporophyte and cone.

Or

Explain the external features of sporophyte of Marselia and internal structure of rhizome.

(1 × 10 = 10 marks)

- 23 Explain the T.S. of Cycas leaf let.

Or

Describe the female cone of Gnetum and V.S. of Ovule.

(1 × 10 = 10 marks)

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