2023

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(2nd Semester)

BOTANY

(Honours)

Paper: BCC-04

[Archegoniate (Bryophytes, Pteridophytes and Gymnosperms)]

Full Marks: 75
Pass Marks: 40%

Time: 3 hours

The figures in the margin indicate full marks for the questions

1. (a) What are bryophytes? Mention the general characteristic features of bryophytes in detail. 2+13=15

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- (b) Write short notes on any two of the following: $7\frac{1}{2}\times2=15$
- (i) Archegoniates
 - (ii) Characters of pteridophytes

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(Turn Over)

2. (a) Write a note on the classification of bryophytes (up to family) as given by Proskauer, 1957. Add some points on the economic importance of bryophytes.

10+5=15

Or

- (b) Describe the morphology of Anthoceros.

 Write a note on the reproduction of Anthoceros. $7\frac{1}{2}+7\frac{1}{2}=15$
- 3. (a) Describe the morphology and reproduction of Equisetum. 6+9=15

Or

- (b) Write short notes on any two of the following: $7\frac{1}{2}\times2=15$
 - (i) Heterospory and seed habit
 - (ii) Telome theory
 - (iii) Stelar evolution
- 4. (a) Discuss, in detail, the general characteristic features of gymnosperms.

 Give some characteristic features of Gnetum.

 9+6=15

Or

- (b) Write notes on the following: $7\frac{1}{2}+7\frac{1}{2}=15$
 - (i) Reproduction in Cycas
 - (ii) Characters of Pinus

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(Continued)

- 5. (a) Write notes on the following: $7\frac{1}{2}+7\frac{1}{2}=15$
 - (i) Geological timescale
 - (ii) Paleobotany in relation to exploration of fossil fuels

Or

- (b) Write notes on the following: $7\frac{1}{2}+7\frac{1}{2}=15$
 - (i) Fossil types and its formation
 - (ii) Scope of paleobotany
