C/18/B.Sc./2nd Sem/BOTH/C4T

Total Pages-3

2nd Semester

BOTANY

PAPER-C4T

(Honours)

Full Marks: 40

Time: 2 Hours

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

1. Answer any five of the following:

5×2

- (a) What is sulphur shower? Give example.
- (b) What is called heteromorphic alternation of generation? Give example.
- (c) Give the xerophytic features present in Sphaguum.
- (d) Write two major differences between woods of Cycas and Pinus.

- (e) Compare between Apospory & Apogamy.
- (f) Give the angiospermic features of *Gnetum* & the fern features of *Cycas* leaf.
- (g) Define synangium & Retort cell with example.
- (h) Name two floating heterosporous pteridophytes.
- 2. Answer any four of the following:

4×5

- (a) Discuss the anatomical features of the needle of Pinus.
- (b) Give the differential features of the capsule of Funaria & Anthoceros.
- (c) Give illustrated account of the embryogeny of Pinus.

5

- (d) Define heterospory. Explain its significance in the life history of Selaginella. 2+3
- (e) Compare between the sperophyte of Pellia & Porella.
- (f) Describe the characteristic features of Cooksonia.

5

3. Answer any one of the following:

1×10

- (a) Write about the economic importances of gymnosperms. Briefly discuss about the ecological importances of bryophytes.

 6+4
- (b) What is Telome? Explain with suitable diagrams the evolution of megaphyllous leaves of ferns in the light of telome concept. 2+8