5. Write a brief note on evolutionary significance of heterospory with reference to parental care and seed habit. 14

Or

6. How can you explain evolution of sporophyte in Pteridophyte with the help of Zimmerman'sconcept? 14

7. Write an account on the morphology and anatomy of male and female cones of Pinus. Write a note on sulphur shower. 12+2=14

Or

8. Write notes on the following: 7x2=14
   (a) Distribution of extant conifers in India
   (b) Advanced features of Gnetum

9. Write short notes on the following: 3.5x4=14
   (a) Harmful algal bloom
   (b) Resins
   (c) Peat and its formation
   (d) Economic uses of *Sphagnum*.

Or

10. Write notes on the following: 7x2=14
   (a) Write down the role of bryophyte in plant succession.
   (b) Write a brief note on the medicinal properties of Pteridophyte.

★★★

PG (CBCS) ODD SEMESTER EXAMINATION, 2022

LIFE SCIENCE & BIOINFORMATICS

3rd Semester

COURSE NO. LISBCC – 303(B)

(Plant Diversity)

Full Marks : 70

Pass Marks : 28

Time : 3 hours

The figures in the margin indicate full marks for the questions

Answer all questions

1. Discuss the current classification of algae. Add a note on the evolution of chloroplast. 8+6=14

Or

2. Write notes on the following: 7x2=14
   (a) Storage products of algae
   (b) Pigment and photosynthetic apparatus in algae

3. Write notes on the following: 7x2=14
   (a) Peristome teeth
   (b) Oil bodies in Bryophytes

Or

4. Write an elaborate account on the sporophyte evolution in bryophyte. Add a note on Anthoceros sporophyte. 10+4=14