4. Write short notes on the following: 7x2=14

   (a) Ecological significance of double fertilization

   (b) Role of self incompatibility in agriculture

5. Write a note on polyembryony and its evolutionary significance. 14

Or

6. Write short note on the following: 7x2=14

   (a) Significance of male sterility

   (b) Apomixis

7. Write short note on the following: any two 7x2=14

   (a) Role of Herbarium in Teaching and Research

   (b) International Plant Name Index

Or

8. Discuss in brief the role of AFLP in plant taxonomic studies. 14

9. Write notes on the following: 7x2=14

   (a) Endangered plants in Assam

   (b) Advanced factors of family Orchidaceae

Or

10. Write an elaborate account on the phylogeny and floral evolution within Zingiberales. Add a note on economic importance of the order. 12+2=14

★★★

PG (CBCS) ODD SEMESTER EXAMINATION, 2022

LIFE SCIENCE & BIOINFORMATICS

3rd Semester

COURSE NO. LISBCC – 302(B)

(Morphology, Differentiation and systematic Botany)

Full Marks : 70

Pass Marks : 28

Time : 3 hours

The figures in the margin indicate full marks for the questions

Answer all questions

1. Write notes on the following with illustrations: 3.5x4=14

   (a) Modification of calyx

   (b) Corymb and Umbel inflorescence

   (c) Free central placentation

   (d) Modified tap root

Or

2. Write an account on gender expression in monoecious and dioecious plants. 14

3. Write a detailed note on Megagametogenesis in Angiosperm. 14

Or