

Reg. No.:....



II Semester B.Sc. Degree (C.B.C.S.S. – Reg./Supple./Imp.)
Examination, May 2017

COMPLEMENTARY COURSE IN BOTANY/PLANT SCIENCE 2C02 BOT/PLS : Archaegoniatae, Palaeobotany and Reproduction in Angiosperms

(2014 Admn. Onwards)

Max. Marks: 32 Time: 3 Hours SECTION - A Answer all. 1. Sago is obtained from b) Funaria a) Selaginella d) Riccia c) Cycas 2. Generative cell gives rise to b) Male gametes a) Tube nucleus d) Egg c) Endosperm 3. Connective forms part of b) Stamen a) Ovule d) Pedicel c) Pistil 4. That which helps liberation of spores in Funaria. b) Peristome a) Trabeculae Istyracionamico to englicio d). Theca is montare lib il work no afon c) Apophysis 5. Sterile cells in the sporophyte of Riccia. b) Nurse cells a) Seta d) Spores. (5×1=5) c) Calyptras



SECTION - B

Answer any four.

- Explain the structure of the monocot embryo.
- 7. Write notes on double fertilisation.
- 8. Explain Rhizophora.
- 9. What is meant by diploxylic condition?
- 10. Give an account on the appendages seen in the thallus of Riccia. What are their functions?
- 11. What is meant by protonema?

 $(4 \times 2 = 8)$

SECTION-C

Answer any three.

- 12. What is a fossil? Explain the processes involved in fossilisation.
- 13. With the help of diagrams discuss microgametogenesis in angiosperms.
- 14. Draw a neat labelled diagram of the strobilus in Selaginella.
- 15. What are coralloid roots?
- Explain the structure of the antheridial cluster in Funaria with the help-of sketches.
 (3×3=9)

SECTION - D

Answer any two.

- 17. With the aid of diagrams explain the morphology and anatomy of Rhynia.
- Describe the alternation of generation seen in the life cycle of Riccia and add a note on how it differs from Funaria in structure of gametophyte and sporophyte.
- 19. Describe the structure of the Cycas ovule with the help of a diagram.
- 20. With the help of diagrams discuss the *Polygonum* type of embryo sac and the different types of endosperm seen in angiosperms. (2x5=10)