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Name :



IV Semester B.Sc. Degree (CBCSS - Reg./Supple./Imp.)
Examination, May 2017
(2014 Admn. Onwards)

CORE COURSE IN BOTANY/PLANT SCIENCE
4B04 BOT/PLS : Bryology, Pteridology, Gymnosperms and
Palaeobotany

Time: 3 Hours

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SECTION - A

Answer all.

- 1. Archegonia are absent in
 - a) Cycas
- b) Pinus
- c) Nephrolepis
- d) Gnetum

- 2. Stele in Marsilea is
 - a) Protostele
- b) Amphiploic siphonostele
- c) Meristele

- d) Dictyostele
- 3. Sporophytic generation is dominant in
 - a) Selaginella
- b) Funaria
- c) Anthoceros
- d) Marchantia

- 4. Stigmarian system is characteristic of
 - a) Lyginopteris

b) Lepidodendron

c) Rhynia

d) Lepidocarpon

 $(4 \times 1 = 4)$

SECTION - B

Answer any eight.

- 5. What are carinal canals?
- 6. With a neat labelled sketch explain the morphology of Psilotum.
- 7. Write an account on different types of fossils.



- 8. Cycas leaf is used widely for decorative purposes. Give reasons.
- 9. Draw and describe the structure of the male cone of Gnetum.
- 10. Describe protonema with the help of a diagram.
- 11. Write notes on Rhizophore.
- 12. Draw a neat labelled diagram of female cone Pinus.
- 13. With the help of a diagram, explain the structure of Nephrolepis gametophyte.
- 14. Discuss the advanced characters exhibited by the sporophyte of Anthoceros.
- 15. What is meant by Sulphur dust?
- 16. Differentiate between the elaters of Marchantia and that of Equisetum. (8×2=16)

SECTION-C

Answer any four.

- 17. Discuss the post fertilisation changes in Marchantia.
- Enumerate the economic importance of gymnosperms.
- 19. Explain the morphology of Lepidodendron.
- 20. Describe the structure of the sporocarp.
- 21. How is the sporophyte of Riccia different from that of Funaria?
- 22. Explain the affinities shown by pteridophytes to gymnosperms. (4×3=12)

SECTION - D

Answer any one.

- 23. Write in detail the method of reproduction in Funaria with suitable diagrams.
- With the help of suitable diagrams describe the life cycle and alternation of generation in Selaginella.
- 25. Describe the sporophyte structure and life cycle in Cycas. (1×8=8)