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FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Third Semester B.Sc Botany Degree Examination, November 2022

BBT3B03 - Phycology, Bryology & Pteridology

(2019 Admission onwards)

Time: 2 hours

Max. Marks: 60

SECTION A

(Answer all questions, each question carries 2 marks. Ceiling: 20 Marks)

- 1. Describe the structure and reproduction of Chlorella.
- 2. Describe the structure of tetrasporophyte of Polysiphonia.
- 3. Write a note on importance of algae as bio-fuels.
- 4. Describe the thallus structure and reproduction in Vauheria.
- 5. Describe the salient features of Bacillariophyceae.
- 6. Write an account of Fossil bryophytes.
- 7. Describe the structure of archegonium in Riccia.
- 8. Write a brief outline of classification of bryophytes by Stotler and Stotler.
- 9. Describe apogamy and apospory in pteridophytes, citing examples.
- 10. Describe the structure of sporangia in *Pteris*.
- 11. Discuss the affinities of preridophytes with gymnosperms.
- 12. Write a comparative account of the male gametes in Selaginella and Psilotum.

SECTION B

(Answer all questions, each question carries 5 marks. Ceiling: 30 Marks)

- 13. Describe the thallus structure in Sargassum.
- 14. Describe the thallus structure and reproduction in Volvox.
- 15. Write a note on the internal features of the thallus in Riccia and Anthoceros.
- 16. Write an account of the sporophyte in Funaria.
- 17. Describe the external and internal features of Psilotum.
- 18. Describe the internal features of Equisetum. Discuss its xerophytic adaptations.
- 19. Describe the structure of sporangia and spores in Equisetum.

SECTION C

(Answer any one question, each question carries 10 marks. $1 \times 10 = 10$ Marks)

- 20. Describe the thallus structure and sexual reproduction in Chara.
- 21. Describe the structure of gametophytes in Selaginella, Psilotum, Equisetum and Pteris

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FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Third Semester B.Sc Zoology Degree Examination, November 2022

BBT3C03 - Morphology, Systematic Botany, Economic Botany, Plant Breeding & Horticulture

(2019 Admission onwards)

Time: 2 hours

Max. Marks: 60

SECTION A

(Answer all questions, each question carries 2 marks. Ceiling: 20 Marks)

- 1. What is emasculation? What is its significance in hybridization?
- 2. What is polyploidy breeding?
- 3. Write a short note on the inflorescence of Euphorbiaceae
- 4. Write about the medicinal values of Rauwolfia serpentina
- 5. What is aestivation? Name the aestivation present in the corolla of Fabaceae.
- 6. Write an account on Quarantine.
- 7. Distinguish between epigynous and hypogynous ovary.
- 8. What is layering?
- 9. Expand 1) NBPGR 2) BSI
- 10. Write the binomial and family of Cardamom and Cotton.
- 11. What are the advantages of seed propagation
- 12. Briefly explain the androecium of Malvaceae

SECTION B

(Answer all questions, each question carries 5 marks. Ceiling: 30 Marks)

- 13. Write an account on basic rules of nomenclature
- 14. Write an illustrated account on the different types of racemose inflorescences
- 15. Write a note on Pureline and Mass selection
- 16. Write an account on herbarium and its importance
- 17. Write an account on mutation breeding
- 18. With suitable diagrams, explain the different types of aestivations in angiosperms
- 19. Give a brief account of numerical taxonomy.

SECTION C

(Answer any one question, each question carries 10 marks. $1 \times 10 = 10$ Marks)

- Give an outline on the classification of the seed plants by Bentham and Hooker.
 Write its merits and demerits.
- 21. What is hybridization? Explain the procedures of hybridization and its significance.