

1B3N20131

(Pages : 1)

Reg. No:.....

Name:

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Third Semester B.Sc Botany Degree Examination, November 2020

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. Write a brief account on fresh water algae.
2. What are phytoplanktons? Cite two examples.
3. What is anisogamy?
4. Name the various reproductive methods of Bryophytes.
5. Give the classification of *Riccia*.
6. What is protonema? What is its structure?
7. What are sporocarps? Give an example of the genus in which it is found.
8. What do you mean by a Synangium? Where is it found?
9. Differentiate between the microsporangia and megasporangia of *Selaginella*.
10. Define epizoic and epiphytic algae.
11. Give the systematic position of *Anthoceros*.
12. Why *Equisetums* are considered as 'living fossils' and 'ecological indicators'?

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

13. Give an account of various types of unicellular algae with suitable examples.
14. Write a short note on algal pigments.
15. Briefly explain the asexual reproduction in *Oedogonium*.
16. Explain the structure of the sporophyte of *Anthoceros*.
17. Describe the life cycle of *Funaria*.
18. Describe the various types of steles present in pteridophytes
19. Describe the anatomy of the roots of *Selaginella*.

SECTION C**(Answer any one question, each question carries 10 marks. (1 x 10 = 10 Marks)**

20. Describe with the help of diagrams, various life cycle patterns exhibited by algae.
21. Describe the heterosporous life cycle and alternation of generation of *Selaginella* with the aid of a diagram

1B3N20132

(Pages : 2)

Reg. No:.....

Name:

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Third Semester B.Sc Zoology Degree Examination, November 2020

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. Which are the different types of alternate phyllotaxies? Give an example for each
2. Differentiate between paripinnate & imparipinnate leaves? Give an example for each
3. What is a Corolla? Give any two functions?
4. What is Cytotaxonomy?
5. Give the peculiarity of the petals of the family Fabaceae.
6. What is Phylogenetic classification? Give examples.
7. Write the binomials of Pepper and Cardamom.
8. Write the binomials of any two pulses you studied.
9. Write the medicinal uses and morphology of the useful part of *Curcuma longa*.
10. Distinguish between *in-situ* and *ex-situ* germplasm conservation.
11. How is pureline selection differ from mass selection?
12. Define landscaping.

SECTION B

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

13. Describe the different kinds of Cymose inflorescences? Give an example for each.
14. What are special types of inflorescences? Describe the various types with examples.
15. Differentiate between Artificial, Natural and Phylogenetic systems of classification
16. Describe the salient features of the family Poaceae

17. Write the binomial, family and morphology of useful part of any two medicinal plants
18. Briefly describe the plant quarantine activities of NBPGR.
19. Comment on the importance of fertilizer application for seedlings?

SECTION C

(Answer any one question, each question carries 10 marks. (1 x 10 = 10 Marks)

20. What are simple and compound leaves? Describe the various types with diagrammatic sketches and examples.
21. Describe in detail the modern trends in taxonomy.