

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Second Semester B.Sc Botany Degree Examination, April 2022

BBT2B02 – Microbiology, Mycology, Lichenology and Plant Pathology

(2019 Admission onwards)

Time: 2 hours

Max. Marks: 60

SECTION A

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

1. Differentiate between heteromericous and homoiomericous lichens.
2. What is necrotroph?
3. What are capsids?
4. What are viroids?
5. What are isidia?
6. What is heterothallism?
7. What is an anamorphic fungus?
8. What are prions?
9. Differentiate between leaf spot and leaf blight.
10. What is an apothecium?
11. What are the symptoms of Mahali disease of arecanut.
12. Write an account on teliospore stage of rust.

SECTION B

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

13. Write a brief account of the salient features of Ascomycotina.
14. Explain rhizosphere and phyllosphere.
15. Give an account on the medicinal importance of fungi.
16. Briefly explain asexual reproduction in lichens.
17. Write an account on economic importance of bacteria.
18. Give an account on classification of viruses.
19. Explain the symptoms and control measures of Grey leaf spot of coconut.

SECTION C

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

20. Explain the life cycle of *Puccinia*, with suitable diagrams.
21. Write an account on bacterial reproduction.

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Second Semester B.Sc Zoology Degree Examination, April 2022

BBT2C02 – Cryptogams, Gymnosperm & Plant Pathology

(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 note on the types of Bacteria based on flagella.
2. Write on the modes of nutrition in bacteria.
3. Write a note on the economic importance of Algae.
4. Describe the salient features of Zygomycotina.
5. Describe the structure of *Sargassum thallus*.
6. Write a note on the Uredineal stage of *Puccinia*.
7. Describe the external and internal features of coralloid root in *Cycas*.
8. Describe the structure and functions of rhizophore in *Selaginella*.
9. Describe the structure of strobilus in *Selaginella*.
10. Write a note on the thallus structure of *Riccia*.
11. Write a note on the causative organism, symptoms of Blast of paddy
12. Write a note on the causative organism and control measures of Leaf mosaic of Tapioca.

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

13. Write notes on the economic importance of Bacteria.
14. Describe the detailed structure of *Nostoc*.
15. Describe the detailed structure of *Usnea*. Comment on its reproduction.
16. Describe the female reproductive structure in *Polysiphonia*.
17. Describe the sexual reproductive structures of *Riccia*.
18. Write an account of the internal structure of stem of *Selaginella*. Draw diagram. [4+1=5 marks]
19. Write a note on the causative organism, symptoms and control measures of Citrus canker.

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

20. Describe the structures of Tobacco Mosaic Virus and Bacteriophage. Draw diagrams.

[(4 + 1) x 2 = 10 marks]

21. Describe the structure of male and female reproductive structures in *Cycas*. Draw diagrams

[(4 + 1) x 2 = 10 marks]