

42

2M20014

(Pages : 2)

Reg. No:.....

Name:

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Second Semester B.Sc. Botany Degree Examination, March/April 2020

BBT2B02 – Microbiology, Mycology, Lichenology & Plant Pathology

(2019 Admission onwards)

Time: 2 hours

Max. Marks: 60

SECTION A

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

- Differentiate between crustose and foliose lichens.
- What is an obligate pathogen?
- Write a note on Prions?
- What are virions?
- What are rhizines?
- What is heterothallism?
- What are autoecious fungi?
- How are viruses classified based on genetic material?
- Differentiate between necrosis and chlorosis.
- What is a perithecium?
- What are the symptoms of grey leaf spot disease of coconut.
- Write an account on diakryotic mycelium.

SECTION B

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

- Write a brief account of the salient features of Basidiomycotina.
- Explain rhizosphere and phyllosphere.
- Give an account on the agricultural and industrial importance of fungi.
- Briefly explain reproduction in lichens.
- Write an account on economic importance of bacteria.
- Give an account on classification of bacteria.
- Explain the symptoms and control measures of Mahali disease of arecanut.

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 reproduction of bacteria.

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Second Semester B.Sc Zoology Degree Examination, March/April 2020

BBT2C02 – Cryptogams, Gymnoperms & Plant Pathology

(2019 Admission onwards)

Time: 2 hours

Max. Marks: 60

SECTION A

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

- . What are the different types of bacterial nutrition?
- . What is capsid? Write a note on its functions.
- . Write about the salient features of the Chlorophyceae
- . Write short note about the homothallism and heterothallism
- . Describe about the important features of the Ascomycotina
- . Elucidate the structure of the Teleutospore
- . Give an account about the Sporogonium
- . What is trabeculae?
- . Briefly explain the structure of Ligule
0. Write about affinities of gymnosperms with Pteridophytes
1. Write short note about the symptoms of the plant diseases
2. Briefly explain the control measures of the Blast of paddy

SECTION B

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

3. Name the pathogen, symptoms and control measures of the Leaf mosaic of Tapioca
4. Illustrate the structure of *Cycas* ovule.
5. Describe about the alternation of generations found in *Selaginella*
6. What are lichens ? Write an account on economic importance of lichens.
7. Write a note on the economic importance of the fungi
8. Describe about the bacterial conjugation
9. With help of labelled diagram explain the structure of TMV

SECTION C

(Answer any one questions, each question carries 10 marks. Ceiling: 1x10=10 Marks)

0. Explain the sexual reproduction and post fertilization changes of the *Polysiphonia*
1. Write an essay on structure and multiplication of the bacteriophages.