1B3N17018 (Pages : 2) Reg. No:.....

Name: .....

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Third Semester BSc Degree Examination, November 2017

BOT3B03T - Microbiology , Mycology, Lichenology & Plant Pathology

(2016 Admission onwards)

Max. Time: 3 hours Max. Marks: 80

PART A

(Answer all the questions)

1. Genetic material of Retroviruses is _____.
2. Write an example for edible lichen.
3. Grey leaf spot of coconut is caused by _____.
4. Causative organism of white rust disease of crucifers is _____.
5. Algal partner of a lichen is called _____.
6. Who discovered viroids?
7. What is necrosis?
8. Write an example for chemosynthetic bacteria which convertsnitrite tonitrate.
9. The technical name of sac fungi is _____ .
10. What is dikaryon?

(10 x 1=10 marks)

Part B

(Answer all questions)

11. Describe asexual reproduction of *Mucor*.
12. What are soredia?
13. With suitable examples enumerate the economic importance of Basidiomycetes.
14. Distinguish between basidiospores and ascospores.
15. Describe the structure of bacterial flagella.
16. Write a brief note on Bordeaux mixture.
17. What arecephaloidea?
18. What are Actinomycetes ? Name an actinomycete useful in antibiotic production.
19. With suitable examples enumerate any two uses of bacteria in dairy industry.
20. Write a note on quarantine measures.

(10 x 2=20 marks)

Part C
(Answer any six of the following)

21. Write a brief account of the features of aMastigomycotina.
22. Explain role of microbes in nitrogen cycle.
23. Describe the different types of spores produced by *Puccinia*.
24. Briefly explain mechanisms of disease resistance.
25. Briefly explain classification of lichens based on thallus structure.
26. Describe genetic recombination of bacteria.
27. With the help of diagrams describe the basidiocarp of Agaricus.
28. Write an account of any five symptoms of plant diseases.

(6 x 5= 30 marks)

Part D
(Answer any two of the following)

29. Briefly explain etiology, symptoms and control measures of
    a) Mahali disease of Arecanut b) Quick wilt of pepper
30. Describe the structure and reproduction of bacteriophages.
31. With the help of diagrams describe the reproduction, and life cycle of *Peziza*.

(2 x10 = 20 marks)

1B3N17019 (Pages : 2) Reg. No:.....

Name: .....

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Third Semester BSc Degree Examination, November 2017

BOT3C03T - Morphology, Systematic Botany, Plant Breeding, Economic botany and Horticulture

(2016 Admission onwards)

Max. Time: 3 hours Max. Marks: 64

PART - A

Answer *all* questions. Each question carries *one* mark

1. Who initiated the system of binomial nomenclature?
2. Cite two examples for plants with whorled phyllotaxy.
3. Write the binomial of Black gram and Clove.
4. Write the family and morphology of useful parts of Gingelly and Cardamom.
5. What is test cross?
6. What is pureline selection?
7. What is the chemical used to induce polyloidy?
8. Define monadelphous and monandrous conditions.
9. What is corona?
10. What is OTU?

(10 x 1 = 10 Marks)

PART - B

Answer any *seven* questions. Each question carries *two* marks

11. Brifly describe the floral features of Euphorbiaceae.
12. What is Numerical Taxonomy?
13. List out the floral features of Fabaceae.
14. What is author citation? Explain with examples.
15. Write a short note on Cytotaxonomy, citing an example.
16. Briefly describe the steps of hybridisation.
17. Write a note on the Binomial, Family and morphology of useful parts of Adhatoda and Turmeric.
18. Write a note on the Binomial, Family and morphology of useful parts of Tea and Coffee.
19. What is mutation breeding?
20. What is recalcitrant seed? Cite examples.

(7 x 2 = 14 Marks)

PART - C

Answer *any six* questions. Each question carries *four* marks

21. Write a note on the floral features of Rubiaceae.
22. Describe the different types of Racemose inflorescences.
23. Write a note on APG Classification sytem.
24. Write an account on Lectotype and Lectotypification.
25. Write on the significance of Botanical gardens.
26. Write on the floral features of Apocynaceae.
27. Write a note on breeding for disease resistance.
28. Write notes on methods of Budding and Grafting.

(6x 4 = 24 Marks)

PART - D

Answer ***any two*** questions. Each question carries ***eight*** marks

29. Write an account on types of plant classifications schemes. Briefly describe the Bentham and Hooker's system of classification.
30. Write an essay on the preparation and significance of herbarium.
31. Write an account on different types of inflorescence.

(2 x 8 = 16 Marks)