

1B3N18132

(Pages : 2)

Reg. No:.....

Name: .....

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Third Semester BSc Degree Examination, November 2018

BBOT3B03 - Microbiology , Mycology, Lichenology & Plant Pathology

(2016 Admission onwards)

Max. Time: 3 hours

Max. Marks: 80

**PART A**

**(Answer all the questions)**

1. Who is regarded as Father of Microbiology?
2. Lichen growing on the rock is called \_\_\_\_\_.
3. Define systemic fungicide.
4. What are gills?
5. Foliose lichens are attached to substratum with the help of rhizoid like structures called \_\_\_\_\_.
6. Who discovered viruses?
7. What is damping off?
8. Write an example for chemosynthetic bacteria which converts ammonia to nitrite.
9. Example for a fungus without having mycelium is \_\_\_\_\_.
10. What is dolipore septum?

**(10 x 1=10 marks)**

**Part B**

**(Answer all questions)**

11. Write a note on quarantine measures.
12. Differentiate between phycobiont and mycobiont.
13. Write a note on ascospores.
14. Distinguish between conidia and zoospores.
15. Write notes on Phyllosphere.
16. Describe Industrial uses of *Saccharomyces* and *Penicillium*.
17. With suitable examples mention any two uses of lichens?
18. What is prophage? Write its role in genetic recombination.
19. What is PPLO? Name a disease caused by it.
20. What is biocontrol? Write an example.

**(10 x 2=20 marks)**

**Part C**  
(Answer any six of the following)

21. Write a brief account of the features of Zygomycotina.
22. What is pure culture? Briefly explain any two pure culture techniques.
23. With suitable examples enumerate the economic importance of Ascomycotina .
24. Briefly explain control measures of plant diseases.
25. Briefly explain methods of reproduction in lichens.
26. Describe the structure and reproduction of HIV.
27. Explain briefly the type of interaction between algae and fungi in lichens.
28. Write an account of biological and genetic methods of quarantine measures.

(6 x 5= 30marks)

**Part D**  
(Answer any two of the following)

29. Briefly explain etiology, symptoms and control measures of
  - a) Blast of Paddy
  - b) Citrus Canker.
30. Describe the reproduction and genetic recombination of bacteria.
31. With the help of diagrams describe the reproduction, and life cycle of *Agaricus*.

(2 x10 = 20 marks)

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FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Third Semester BSc Degree Examination, November 2018

**BBOT3C03 - Morphology, Systematic Botany, Ecobotany, Plant Breeding and Horticulture**

(2016 Admission onwards)

Max. Time: 3 hours

Max. Marks: 64

**PART - A**

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

1. Who coined the term Herbarium?
2. Write the Floral formula of Crotalaria.
3. Write the binomial of Green gram and Pepper.
4. Write the binomial of Cotton and Wheat.
5. What is back cross?
6. What is clonal selection?
7. What are orthodox seeds?
8. Define Opposite deccussate condition, citing an example.
9. Name two semantides useful in taxonomy.
10. What is Out Group?

(10 x 1 = 10 Marks)

**PART - B**

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

11. What are the principles of ICBN?
12. Briefly describe the floral features of Malvaceae.
13. Write a brief note on the concept of Priority.
14. Write brief descriptions of major Botanical Gardens in Kerala.
15. What is Numerical Taxonomy?
16. Define Holotype, Syntype, Neotype and Paratype.
17. Write a note on the Binomial Family and morphology of useful parts of Black gram and Paddy.
18. Write a note on the Binomial Family and morphology of useful parts of Sandal and Rubber.
19. What is mutation breeding?
20. What is pomology?

(7 x 2 = 14 Marks)

### PART - C

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

21. With the help of diagrams describe cyathium florescence.
22. Write a note on APG Classification system.
23. Write an account on Lectotype and Lectotypification.
24. Write a note on the floral features of Apocynaceae.
25. Write a note on the floral features of Caesalpiaceae.
26. Describe the structure of floret in Poaceae.
27. What is polyploidy breeding?
28. Write notes on methods of Budding and Layering.

(6 x 4 = 24 Marks)

### PART - D

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

29. Write an essay on the Bentham and Hooker's system of classification. Discuss its merits and demerits.
30. Describe the preparation of herbarium. Discuss the significance of herbarium.
31. Write an account on the concept of flower is a modified shoot. Discuss the evidences in support of this concept.

(2 x 8 = 16 Marks)