

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Third Semester B.Sc. Botany Degree Examination, November 2019

BBOT3B03 – Microbiology, Mycology & Lichenology & Plant Pathology

(2018 Admission onwards)

Time: 3 hours

Max. Marks: 80

PART A**(Answer all the questions)**

1. _____ is an edible fungus.
2. Prions are _____.
3. Causative organism of Mahali disease of arecanut is _____.
4. Vein banding and clearing of leaves of tapioca is caused by _____.
5. _____ is an example for a foliose lichen.
6. Autotrophic bacteria that use inorganic chemicals as energy source are called _____.
7. Circular extrachromosomal genetic material in bacteria is called _____.
8. Cup shaped fruiting body produced by an Ascomycotina member is called _____.
9. A fungus that completes its life cycle in more than one host is called _____ fungus.
10. _____ is an example for a fruticose lichen.

(10 x 1=10 marks)**Part B****(Answer all questions)**

11. Differentiate between monokaryotic and dikaryotic hyphae.
12. What is a dolipore septum?
13. What is a capsomere?
14. Differentiate between Gram-positive and Gram-negative bacteria.
15. Differentiate between viroids and virions.
16. What is coenocytic hyphae?
17. What are rhizines?
18. How are fungicides classified based on their location of action.
19. What is a soredium?
20. What is gummosis?

(10 x 2=20 marks)

Part C

(Answer any six of the following)

21. What are the characteristic features of viruses?
22. Explain economic importance of bacteria with suitable examples.
23. Give an account on the economic importance of lichens.
24. Give an account on the medicinal and industrial importance of fungi.
25. What are the general characteristics of Basidiomycotina?
26. Give an account on the grey leaf spot disease of coconut.

(6 x 5 = 30marks)

Part D

(Answer any two of the following)

27. Write an essay on causative agents and symptoms of plant diseases.
28. Explain genetic recombination in bacteria.
29. With the help of diagrams describe the life cycle of *Albugo*.

(2 x10 = 20 marks)

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(Pages : 2)

Reg. No:.....

Name:

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Third Semester B.Sc. Zoology Degree Examination, November 2019

BBOT3C03 – Morphology, Systematic Botany, Economic Botany, Plant Breeding & Horticulture

(2018 Admission onwards)

Time: 3 hours

Max. Marks: 64

Part A

Answer all Questions

Answer in one or two words:

1. Arrangement of leaves on stem
2. Flower which can be divided in to two equal halves through only one particular plane
3. Inflorescence with flowers arranged in basipetal succession.
4. Father of modern taxonomy
5. Cohesion of stamen in which filaments free, but anthers fused
6. Interpetiolar stipule is the characteristics of
7. Selection in self pollinated crops
8. Cultivation of vegetable crops.
9. Morphology of useful part of Cardamom
10. Binomial of Tea

(10×1=10 marks)

Part B

Answer any seven questions

11. Write short note on Priority of publication
12. Write a note on binomial nomenclature
13. What is Cyathium ?
14. Briefly explain the inflorescence of Poaceae
15. Binomial, family and morphology of useful part of Rubber.
16. Write short note on approach grafting
17. What is Chemotaxonomy
18. Differentiate between hypogynous and epigynous flowers
19. Briefly explain Mass selection
20. What is air layering?

(7×2=14 marks)

Part C

Answer any six of the following

21. Briefly explain floral features of Apocynaceae
22. What is Placentation? Describe various types.
23. Give an account on ICBN
24. Explain Breeding for Disease Resistance.
25. Describe the essential organs of Fabaceae.
26. Write the binomial, family, morphology of useful part and uses of Pepper and Clove
27. Differentiate between Patch budding and T- budding.
28. What is herbarium? Describe various techniques involved in herbarium preparation.

(6×4=24 marks)

Part D

Answer any two of the following

29. What is an inflorescence? Describe various type of Racemose inflorescence with the help of diagrams.
30. Give an outline of Bentham and Hooker's system of classification. Add notes on its merits and demerits.
31. Briefly explain different methods of selection in plant breeding.

(2×8=16 marks)