

B3N16137

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Reg. No:.....

Name: .....

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Third Semester BSc Degree Examination, November 2016

**BOT3B03T - Microbiology , Mycology, Lichenology & Plant Pathology**

(2015 Admission onwards)

Max. Time: 3 hours

Max. Marks: 80

**PART A**

(Answer all the questions, each question carries 1 mark)

1. Name a free living nitrogen fixing bacteria.
2. Give an example for foliose lichen.
3. The causative organism of Mahali disease of Arecanut is \_\_\_\_\_
4. Name the fungus which causes damping off disease.
5. The lichens living on rocks are called \_\_\_\_\_
6. Prions are \_\_\_\_\_
7. What is necrosis?
8. The gelatinous covering present around the cell wall of some bacteria are called \_\_\_\_\_
9. Differentiate between teleutospores and uredospores.
10. Give an example for coprophilous fungi.

(10 x 1 = 10 marks)

**Part B**

(Answer all questions, each question carries 2 marks )

1. Differentiate between fimbriae and pili.
2. What are single cell proteins ? Give an example.
3. What is plasmodium?
4. Write down the symptoms of Bunchy top of Banana.
5. Distinguish between conidia and oidia.
6. Write a short note on clamp connections.
7. Write about the ecological significance of lichens.
8. What are the important symptoms of fungal diseases of plants ?
9. Differentiate between plasmids and episomes.
10. What are the quarantine measures for plant disease control ?

(10 x 2 = 20 marks)

**PART - C**

III. Answer *any six* questions. Each question carries *five* marks  
(6x5=30 marks)

22. What are wind breaks?
23. Distinguish between parasitism and predation.
24. What is meant by Nitrogen fixation ?
25. Write notes on the anatomical adaptations of xerophytes.
26. Write notes on age structure
27. What is meant by Polyclimax Theory
28. Rotation of crops
29. Primary Productivity

**PART - D**

IV. Answer *any three* questions. Each question carries *eight* marks  
(3x8=24 marks)

30. Define ecological succession ? Give an account of the general pattern of succession?
31. What is meant by ecological pyramid ? Describe the different types ?
32. Write an account on ecological adaptation of halophytes?
33. Define Symbiosis? Give an account of various types of interactions among organisms.
34. What is meant by scientific method? Describe the various steps of scientific method.

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FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Third Semester BSc Degree Examination, November 2016

**BOT3C03T - MORPHOLOGY, SYSTEMATIC BOTANY, ECONOMIC BOTANY,  
PLANT BREEDING AND HORTICULTURE**

(2015 Admission onwards)

Max. Time: 3 hours

Max. Marks: 64

**Part A**

(Answer all questions, each question carries 1 mark)

1. The calyx modified into hairs is called as \_\_\_\_\_
2. The elongated stalk in between the androecium and gynoecium is called as \_\_\_\_\_
3. Central National Herbarium (CNH) is situated at \_\_\_\_\_
4. Duplicates of a holotype collected by the original author is called as \_\_\_\_\_
5. The date which is considered as the starting point of Binomial system of nomenclature \_\_\_\_\_
6. In the family Caesalpiniaceae, aestivation is \_\_\_\_\_
7. Morphology of the useful part of clove is \_\_\_\_\_
8. \_\_\_\_\_ is an example for intergeneric hybrid
9. \_\_\_\_\_ selection method is commonly used in self-pollinating crops
10. Vegetative propagation method employed in *Begonia* is \_\_\_\_\_

(1 x 10 = 10 marks)

**Part B**

(Answer any seven questions, each question carries 2 marks)

11. Distinguish between Diplostemonous and Obdiplostemonous stamens
12. Write short notes on symmetry of flowers.
13. Briefly describe about the characteristic inflorescence type of the family Moraceae.
14. What are Tautonyms and Homonyms?
15. What do you mean by effective and valid publications?
16. Give short notes on Artificial and Natural systems of classification.
17. Mention the medicinal uses of *Rauwolfia serpentina* and *Curcuma longa*
18. What is polyploid breeding ?

19. Distinguish between Vertical and Horizontal resistance.

20. What is seed certification?

(2 x 7 = 14 marks)

**Part C**

(Answer any six of the following, each question carries 4 marks)

21. Flower is a modified shoot. Substantiate the statement.
22. What is aestivation. Describe the different types with suitable diagrams.
23. Describe about the major botanical gardens of India.
24. What is Cytotaxonomy? How is it made useful for classification purposes ?
25. Describe the diagnostic features of the family Rubiaceae.
26. Describe the major objectives of plant breeding.
27. Discuss the procedure of breeding for disease resistance.
28. Discuss the various disciplines of horticulture.

(6 x 4 = 24 marks)

**Part D**

(Answer any two of the following, each question carries 8 marks)

29. Describe the various types of Cymose and Racemose inflorescences with suitable diagrams
30. Describe the methodology for the preparation and storage of a standard herbarium.
31. Write an essay on Hybridization.

(2 x 8 = 16 marks)