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**BSCBOC 152**

**Credit Based Second Semester B.Sc. Examination, September 2022  
(2018 – 19 and Earlier Batches)**

**BOTANY**

**Mycology, Plant Pathology and Bryophytes**

Time : 3 Hours

Max. Marks : 80

- Instructions :** 1) Answer Part – **A** and Part – **B**.  
2) Answer **four full** questions from Part –**B** choosing **one full** question from **each** Unit.  
3) **All** questions in Part – **B** carry **equal** marks.  
4) Draw diagrams **wherever** necessary.

PART – A

1. Answer **any ten** of the following : **(2×10=20)**
- What is doliopore septum ?
  - Write the systematic position of *Rhizopus*.
  - Any two economic importance of *Penicillium*.
  - List the spores of *Puccinia* developed in the wheat plant.
  - Mention the nutritional values of Mushroom.
  - What are crustose lichens ? Give one example.
  - Write any two control measures of Katte disease of Cardamom.
  - Mention the causative agent of Nut rot of Areca nut and Citrus canker.
  - Control measures of Root Knot of brinjal.
  - What are elaters ? Mention their function.
  - What is protonema ? Where do you find them ?
  - What are amphigastria ?

P.T.O.



## PART – B

## Unit – 1

2. a) Describe the structure of perithecium of *Xylaria*. 4  
b) Write a brief note on Alexopoulos system of fungal classification. 4  
c) Explain the sexual reproduction in *Rhizopus*. 7

OR

3. a) Explain any three types of mycelial organizations in fungi. 3  
b) Explain the structure of apothecium in *Peziza*. 5  
c) Describe sexual reproduction in *Phytophthora*. 7

## Unit – 2

4. a) Write a note on economic importance of Lichens. 4  
b) Explain any four uses of fungi with example. 4  
c) Explain the Pycnidial and Aecidial stages of *Puccinia*. 7

OR

5. a) Write a note on basidial stage of *Puccinia*. 3  
b) Describe the various steps of mushroom cultivation. 5  
c) Explain internal structure of heteromerous lichen thallus with neat labelled diagram. 7

## Unit – 3

6. a) Write a note on stem bleeding of coconut. 4  
b) What are biopesticides ? Explain. 4  
c) Explain the pathogen, symptoms and control measure of Blast disease of rice. 7

OR



7. a) Write a note on seed borne diseases. **3**
- b) Mention the pathogen and explain the symptoms and control measures causing Bunchy top of Banana. **5**
- c) Explain the symptoms, transmission and disease management of leaf rust of coffee and bud rot of coconut. **7**

**Unit – 4**

8. a) Explain the structure of *Anthoceros* Gametophyte. **4**
- b) Describe the structure of sex organs of *Riccia*. **4**
- c) Give an account of evolution of sporophyte in bryophytes. **7**

OR

9. a) Explain the economic importance of bryophytes. **3**
- b) Explain the structure of antheridium and archegonium in *Porella*. **5**
- c) Describe the internal structure of moss capsule with the help of a neat labelled diagram. **7**
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