

(6 pages)

Reg. No. : .....

Code No. : 30493 E Sub. Code : CMBO 31

B.Sc. (CBCS) DEGREE EXAMINATION,  
NOVEMBER 2022.

Third Semester

Botany — Core

FUNGI, PLANT PATHOLOGY AND LICHENOLOGY

(For those who joined in July 2021 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Which one of the following is a reserve food material in fungi?  
(a) Starch (b) Glycogen  
(c) Fat (d) Glucose
2. An example of unicellular fungi  
(a) Yeast (b) *Polyporus*  
(c) *Penicillium* (d) *Aspergillus*

3. Primary host of *Puccinia* is  
(a) Wheat (b) Barberry  
(c) Maize (d) Rice
4. *Pleurotus sajor-caju* is commonly called as  
(a) White button mushroom  
(b) Oyster mushroom  
(c) Paddy straw mushroom  
(d) Milky mushroom
5. Vectors are ——— agents.  
(a) Disease control  
(b) Disease resistant  
(c) Disease dissemination  
(d) Disease symptom
6. Effective fungicide for the control of Blast disease of rice  
(a) Mancozeb (b) Tricyclazole  
(c) Fosteyl Al (d) Plantvax

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7. Citrus canker is a \_\_\_\_\_ disease.  
 (a) Fungus (b) Bacteria  
 (c) Virus (d) Mycoplasma
8. The host plant of bunchy top of Banana is  
 (a) Musa (b) Rice  
 (c) Citrus (d) Sorghum
9. The algal partner of lichen is known as  
 (a) Phycobiont (b) Mycobiont  
 (c) Canker (d) Smut
10. The lichens which grow on bark of trees are known as \_\_\_\_\_  
 (a) Saxicoles (b) Corticoles  
 (c) Terriicoles (d) Sterigma

PART B — (5 × 5 = 25 marks)

Answer ALL questions choosing either (a) or (b).  
 Each answer should not exceed 250 words.

11. (a) Who is weed of the laboratory? Explain briefly its structure.  
 Or  
 (b) Explain the general characteristics of fungi.

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12. (a) Elaborate the role of fungi in industries.

Or

- (b) Describe the sexual reproduction of *Peziza*.

13. (a) Describe the symptomatology of the red rot of sugarcane and mention any two control method.

Or

- (b) Explain the causal organism and diffemination of tikka disease of groundnut.

14. (a) Name the causal organism and symptoms of cirtrus canker.

Or

- (b) Give a critical note on Bunchy top of Banana.

15. (a) Describe the morphology of *Usnea*.

Or

- (b) Explain Soredia and Isidia with suitable sketch.

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[P.T.O.]





PART C — (5 × 8 = 40 marks)

Answer ALL questions choosing either (a) or (b).  
Each answer should not exceed 600 words.

16. (a) Write an essay on classifications of fungi.
- Or
- (b) Illustrate the sexual reproduction of fungi.
17. (a) Summarize the economic importances of fungi.
- Or
- (b) Distinguish the uredospore and teleutospore stages of *Puccinia*.
18. (a) Explain the symptoms and control measures of Paddy blast.
- Or
- (b) Explain the symptoms and control measures of tikka disease of groundnut.
19. (a) How are plant viruses transmitted? Give the control measures for a typical plant viral disease that you studied.
- Or
- (b) What measures would you adopt to control the citrus canker and why?

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20. (a) Organize the economic importance of Lichens.

Or

- (b) How will you classify lichens?
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