

(6 Pages)

Reg. No. : .....

Code No. : 20528 E Sub. Code : CMBO 31

B.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2023

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. The study of fungi is called as  
(a) Phycology (b) Bryology  
(c) Mycology (d) Algology
2. White rust disease is caused by  
(a) Peziza (b) Aspergillus  
(c) Albugo (d) Puccinia
7. Bunchy top of banana virus is transmitted by  
(a) Aphis  
(b) Mealy bug  
(c) Caterpillars  
(d) Epilachna beetle
8. Citrus canker disease is caused by  
(a) Pseudomonas  
(b) Xanthomonas  
(c) Rhodoxanthomonas  
(d) Micrococcus
9. Vegetative reproduction in lichens generally takes place by  
(a) Ascospores  
(b) Basidiospores  
(c) Soredia  
(d) Teleutospores
10. Corticolous lichens grow on  
(a) Rocks  
(b) Soil  
(c) Bark  
(d) Roots

Page 3 Code No. : 20528 E

3. An example for heteroecious fungus is  
(a) Albugo  
(b) Peziza  
(c) Puccinia  
(d) Aspergillus
4. The fruit body of peziza is  
(a) Cleistothecium  
(b) Apothecium  
(c) Perithecium  
(d) Pseudothecium
5. Red rot of sugarcane is due to the infection of  
(a) Bacteria  
(b) Fungi  
(c) Insects  
(d) Virus
6. The leaf spot disease of arachis hypogea is popularly called  
(a) Mosaic disease  
(b) Rust disease  
(c) Tikka disease  
(d) Wilt disease

Page 2 Code No. : 20528 E

PART B — (5 × 5 = 25 marks)

Answer ALL questions choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Enumerate the important characteristics of fungi.  

Or

(b) Describe the asexual reproduction in albugo.
12. (a) Explain the v.s. of apothecium of peziza.  

Or

(b) Explain the aecidiospore stage of puccinia.
13. (a) List the disease symptoms caused by cercospora in groundnut.  

Or

(b) Write the causal organism and symptoms of paddy blast disease.
14. (a) Explain the control measures of tobacco mosaic virus.  

Or

(b) Write the causal organism and symptoms of tobacco mosaic disease.

Page 4 Code No. : 20528 E

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15. (a) How lichens are classified?

Or

(b) Write short notes on :

(i) soredia

(ii) isidia.

PART C — (5 × 8 = 40 marks)

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

16. (a) Outline the classification of fungi proposed by alexopoulos.

Or

(b) Describe the structure, reproduction and life cycle of aspergillus.

17. (a) Explain the life cycle of puccinia on wheat plant.

Or

(b) Write an essay on economic importance of fungi.

18. (a) Describe the dissemination and control measures of Tikka disease of groundnut.

Or

(b) Describe the causal organism, symptoms and control measures and red rot of sugarcane.

19. (a) Explain the symptoms, dissemination and control measures of Bunchy top of banana.

Or

(b) Describe the symptoms and control measures of citrus canker.

20. (a) Describe the apothecium of usnea.

Or

(b) Write an essay on the economic importance of lichens.