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Reg. No. :

Code No. : 30528 E Sub. Code : CMBO 31

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

Third Semester

Botany

FUNGI, PLANT PATHOLOGY AND LICHENOLOGY

(For those who joined in July 2021-2022)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Aflatoxin produced by
(a) *Aspergillus* (b) *Albugo*
(c) *Peziza* (d) *Puccinia*
2. Plant body of fungus is known as
(a) Mycelium (b) Stem
(c) Hyphae (d) Both (a) and (c)

3. The *Puccinia* is also known as
(a) Rust fungi (b) Golden fungi
(c) Rock fungi (d) Blue fungi
4. The fungi used in genetical studies are
(a) *Gibberella* (b) *Fusarium*
(c) *Nuerospora* (d) *Aspergillus*
5. *Pyricularia* is a causal organism of _____ disease.
(a) Paddy blast
(b) Red rot of sugar cane
(c) Tikka disease of groundnut
(d) Bunchy top of banana
6. Plant disease which occur periodically are called
(a) Systemic (b) Epidemic
(c) Sporadic (d) Endemic
7. Bunchy top of Banana is a _____ disease.
(a) Viral
(b) Bacterial
(c) Fungal
(d) Mycoplasma

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8. Citrus Canker is caused by

- (a) *Pyricularia oryzae*
- (b) *Xanthomonas citri*
- (c) *Ephelis oryzae*
- (d) *Sclerotium oryzae*

9. Lichen is combination of

- (a) Algae and Bryophytes
- (b) Algae and Fungi
- (c) Fungi and Bryophytes
- (d) Fungi and Pteridophytes

10. *Usnea* is a

- (a) Fruticose
- (b) Foliose
- (c) Crustose
- (d) Corticoles

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Explain the asexual reproduction of *Aspergillus*.

Or

(b) List out the general characters of Fungi.

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12. (a) Illustrate the structure of Apothecium of *Peziza*.

Or

(b) Highlight the role of fungi in medicine.

13. (a) Write short note on Paddy blast.

Or

(b) Give the composition of Bordeaux mixture. How and when will you use it?

14. (a) Explain the symptoms, causal organism and control measures of Citrus canker.

Or

(b) What is Rosette disease? Give its casual organisms and symptoms.

15. (a) Explain the general characters of Lichens.

Or

(b) How will you categorize lichens based on Internal Morphology?

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Illustrate the life cycle of *Albugo*.

Or

(b) Summarize the classification of Fungi.

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17. (a) Explain the life cycle of *Puccinia*.

Or

- (b) Write an essay on economic importance of Fungi.
18. (a) How will you identify, if a crop is affected with red rot of sugar cane? What are the remedial measures the farmer will adopt?

Or

- (b) Explain the symptoms, causal organism and control measures of Tikka disease of ground nut.
19. (a) Explain the symptoms, causal organism and control measures Tobacco mosaic disease.

Or

- (b) Name one important plant diseases of your region. What are their causal organisms? How is infection caused? Suggest methods of control for disease named by you.

20. (a) Illustrate the structure of *Usnea*.

Or

- (b) Elaborate the economic importance of Lichens.
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