

(6 pages)

Reg. No. :

Code No. : 8774

Sub. Code : KBOM 12

M.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2016.

First Semester

Botany

MYCOLOGY, LICHENOLOGY AND MOLECULAR
PLANT PATHOLOGY

(For those who joined in July 2016 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. The name of the sub-class of fungi end in
(a) Mycotina (b) Mycetes
(c) Mycetidae (d) Mycota
2. Fungi which grow on dung are termed as
(a) Coprophilous (b) Terricolous
(c) Sacxicolous (d) Saxiphilous

3. Mycorrhiza is a term to indicate
(a) Fungus association with stem
(b) Bacteria association with root
(c) Fungi association with root
(d) Study of fungi
4. The obligate fungi parasitic fungi absorb their nourishment from the host cell through
(a) The surface (b) Haustoria
(c) Appressoria (d) Rhizoids
5. Lichens are the major pollution indicators of
(a) SO₂ (b) NO₂
(c) Mercury (d) CO
6. *Cladonia rangifera* commonly known as
(a) Reindeer moss (b) Lungwork
(c) Root tripe (d) Lce land moss
7. Which of pigeon pea disease caused by
(a) *Rhizopus nigricans*
(b) *Fusarium udum*
(c) *Aspergillus flavus*
(d) *Gibberella indica*

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8. *Rhizopus* multiplies by the production of
 (a) Zoospores (b) Conidiospores
 (c) Sporangiospores (d) Chlamydospores
9. The whip smut of sugarcane is caused by
 (a) *Ustilago maydis*
 (b) *Ustilago hordei*
 (c) *Ustilago scitaminea*
 (d) *Ustilago nuda*
10. Which of the following is not a pulse crop?
 (a) Sunflower (b) Mustard
 (c) Grass (d) None of these

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Give a brief notes on classification of fungi.
- Or
- (b) Give an account on structure and reproduction of *Mucor*.

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12. (a) Describe the Parasexuality in fungi.

Or

- (b) Write an essay on structure and symbiotic association of Mycorrhiza.

13. (a) Give short note on Classification of Lichens by Miller.

Or

- (b) Describe the general account on Lichens.

14. (a) Give an account on host nutrition of plant diseases.

Or

- (b) Define – “Lichens as Pollution Indicators”.

15. (a) Describe the diseases in pulse crops.

Or

- (b) Write notes on diseases associated with cotton.

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PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Describe the phylogenic interrelationships in fungi.

Or

- (b) Give an account on *Agaricus*.

17. (a) Give a brief notes on Fungi as medicine and biocontrol agent.

Or

- (b) Write an account on applications of Mycorrhiza in agriculture.

18. (a) Describe the structure and reproduction of any foliose lichen.

Or

- (b) Write notes on Micro chemical test for lichens.

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19. (a) Give an account on Host-Parasite interactions of plants.

Or

- (b) Describe the pyramiding of R genes.

20. (a) Write an essay on Diseases of Rice.

Or

- (b) Give an account on Common Plant diseases in Sugarcane.

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