

15. (a) Give a concise account on common disease of cotton.

Or

- (b) Briefly explain the common disease of sugarcane.

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 general characters of Deuteromycotina.

Or

- (b) Explain the general characters of Mastigomycotina.

17. (a) Give a detailed account on structure and symbiotic association of mycorrhizae.

Or

- (b) Enumerate the types of Mycorrhizae.

18. (a) Describe the lichens.

Or

- (b) Explain the economic importance of lichens.

19. (a) Write an essay on defense strategies.

Or

- (b) Give a detailed account on cloning of resistance genes and marker-aided selection.

20. (a) Describe the common disease of sunflower.

Or

- (b) Narrate the common disease of groundnut.

Reg. No. :

Code No. : 7888

Sub. Code : PBOM 12

M.Sc (CBCS) DEGREE EXAMINATION,
NOVEMBER 2019.

First Semester

Botany-core

MYCOLOGY, LICHENOLOGY AND MOLECULAR
PLANT PATHOLOGY

(For those who joined in July 2017 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL the questions.

Choose the correct answer :

- The fusion between unrelated cells is described as
(a) Adelphogamy (b) Pseudogamy
(c) Pedogamy (d) Anisogamy
- The thick walled thallospores formed in fungi are
(a) Chlamydospore (b) Arthrospore
(c) Porospore (d) Phialospore



3. Which of the following food is prepared by using the fungi?
 (a) Incaparina (b) Tempeh
 (c) Both (a) and (b) (d) None of these
4. The fungus used for flavouring the cheese is
 (a) *Aspergillus niger*
 (b) *Aspergillus flavus*
 (c) *Penicillium chrysogenum*
 (d) *Penicillium roquefortii*
5. The lichens growing on rocks are called
 (a) Corticoles (b) Lignicoles
 (c) Terricoles (d) Saxicolous
6. The lichens are
 (a) Sporophyte (b) Parasite
 (c) Symbionts (d) Predator
7. The cytokinins are
 (a) Adenine derivatives
 (b) Guanine derivatives
 (c) Cytidine derivatives
 (d) Thymine derivatives
8. Gibberellin was named after a fungus called
 (a) *Gibberella fujikuroi*
 (b) *Gibberella gaditijirrii*
 (c) *Gibberella acuminata*
 (d) *Gibberella africana*

9. Which of the following are symptoms of a plant disease?
 (a) Bacterial ooze (b) Necrosis
 (c) Chlorosis (d) Galls
10. Which of the following is the common disease in groundnut?
 (a) Red rot (b) Tikka disease
 (c) Wheat rust (d) Blast disease

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 general characters of Basidiomycotina.
 Or
 (b) Write short notes on general characters of Zygomycotina.
12. (a) Describe the parasexuality in fungi.
 Or
 (b) Briefly explain the heterokaryosis.
13. (a) Describe the microchemical tests for lichens.
 Or
 (b) Explain the structure of lichen with diagram.
14. (a) Write short notes on biological control method for plant diseases.
 Or
 (b) Enumerate the chemical control method for plant diseases.

