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Reg. No. : .....

Code No. : 11725 E Sub. Code : SMBO 21

B.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2019.

Second Semester

Botany — Main

FUNGI, PLANT PATHOLOGY AND LICHENOLOGY

(For those who joined in July 2017 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. The cell wall of fungus is made up of \_\_\_\_\_.  
(a) Cellulose (b) Chitin  
(c) Glycogen (d) Suberin
2. 'White rust disease' is caused by this fungus  
(a) Puccinia (b) Cercospora  
(c) Albugo (d) Colletotrichum

3. The fruit body of Peziza is \_\_\_\_\_.  
(a) Cleistothecium (b) Apothecium  
(c) Perithecium (d) None of these
4. One of the following fungi is an example for polymorphic fungus  
(a) Mucor (b) Albugo  
(c) Peziza (d) Puccinia
5. This disease is found in Sugarcane  
(a) Red rust disease  
(b) Leaf spot disease  
(c) Blast disease  
(d) Red rot disease
6. The casual organism of Tikka disease belongs to \_\_\_\_\_ class.  
(a) Oomycetes  
(b) Ascomycetes  
(c) Deuteromycetes  
(d) Basidiomycetes
7. Following one is an example for bacterial disease  
(a) Tobacco mosaic disease  
(b) Citrus canker disease  
(c) Banana Bunchy top disease  
(d) Tikka disease

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8. Banana Bunch top disease was first reported from \_\_\_\_\_.
- (a) Java (b) Fiji Island  
(c) Indonesia (d) Malaysia
9. Terrecolous lichens grow on \_\_\_\_\_.
- (a) Bark (b) Rock  
(c) Soil. (d) None of these
10. The fungal component found in the lichen thallus is called as \_\_\_\_\_.
- (a) Phycobiont  
(b) Mycobiont  
(c) Symbiont  
(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) Write the general characters of the class Oomycetes.
- Or
- (b) Describe the thallus structure of Albugo.

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12. (a) Describe the spore types that are produced by Puccinia on its primary host.

Or

- (b) Explain the role of fungi in food and food products.

13. (a) Write in detail about the casual organism of red rot of sugarcane.

Or

- (b) What are the symptoms of red rot of sugarcane?

14. (a) List out the symptoms of citrus canker disease.

Or

- (b) Explain the preventive measures to be undertaken to control citrus canker disease.

15. (a) What are the general characters of Lichens?

Or

- (b) Describe about the classification of Lichens.

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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) How do asexual and sexual reproductions take place in *Albugo*?

Or

- (b) Describe the life cycle of *Mucor*.

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

Or

- (b) List out the role of fungi in medicine, industry and agriculture.

18. (a) Write in detail about the symptoms, dissemination and control methods of paddy blast disease.

Or

- (b) Describe about the symptoms, casual agent, dissemination and methods of control of Leaf spot disease of ground nut.

19. (a) Explain in detail about the Bunchy top disease of Banana.

Or

- (b) Give explanation about the symptoms, casual agent, dissemination and methods of control of Tobacco Mosaic disease.

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20. (a) Describe the life cycle of *Usnea*.

Or

- (b) Write short notes on :

- (i) Economic importance of Lichens.  
(ii) Special structures associated with lichen thallus.
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