20U223

Reg. No ..... Name .....

B. Sc DEGREE END SEMESTER EXAMINATION - MARCH 2020

SEMESTER 2 : BOTANY

COURSE : **19U2CRBOT02 : MYCOLOGY, LICHENOLOGY AND PLANT PATHOLOGY**

(For Regular - 2019 Admission)

Time : Three Hours Max. Marks: 60

Section A

Answer All the Following (1 mark each)

1. Differentiate between holocarpic and eucarpic fungus.
2. Name the scientist who discovered Penicillin and won Nobel Prize.
3. Mention the primary and secondary hosts of *P.graminis*.
4. What is sclerotium?
5. Mycorrhizae are the association between fungus and algae. True or false?
6. Define lichen.
7. What is Pathogenicity?
8. Explain the specific use of Bordeaux mixture.

(1 x 8 = 8)

Section B

Answer any 6 (2 marks each)

9. Fungus is known as vultures of plant kingdom. Justify the statement.
10. Comment on economic importance of yeast.
11. What is the role of columella in asexual reproduction of *Rhizopus*.
12. Write a note on edible mushrooms.
13. Write a note on poisonous mushroom with suitable examples.
14. What are the different agents of dissemination of disease?
15. Give the composition of Bordeaux mixture and its use.
16. Name the pathogen of blight of rice and suggest it's control measures.

(2 x 6 = 12)

Section C

Answer any 4 (5 marks each)

17. Explain the structure, function and formation of uredospore in *Puccinia*.
18. Comment on germination patterns of asexual spore of *Albugo*.
19. Explain the scheme of fungal classification proposed by Anisworth up to class.
20. Give the economic importance of fungi with respect to agriculture and food.
21. Explain the classification of lichen based on thallus organisation with examples.
22. Write short note on quarantine

(5 x 4 = 20)

Section D
Answer any 2 (10 marks each)

23. Discuss the sexual reproduction and life cycle of *Peziza*.

OR

24. Write an essay on useful and harmful aspects of Fungi.

25. Briefly explain the defence mechanism of host plants against pathogen

OR

26. Give an account of cause, symptom spreading and control measures of the fungal disease affecting rubber plant.

(10 x 2 = 20)