



Date: 08-11-2024

Dept. No.

Max. : 100 Marks

Time: 09:00 am-12:00 pm

SECTION A

Answer ANY FOUR of the following, each within 500 words.

Draw diagrams / flowcharts wherever necessary.

4 x 10 = 40 Marks

1. Highlight the nutritional types found in fungi.
2. Discuss the different types of hyphal modifications in fungi.
3. Explain the lifecycle of *Albugo*.
4. Give a brief account on the lifecycle of *Colletotrichum*.
5. Mention the salient features of the fungal classes.
6. Illustrate and explain the structure and applications of YAC vector.
7. Describe the modes of vegetative reproduction in lichens.
8. Write in detail on the structure and the five major types of endomycorrhiza.

SECTION B

Answer ANY THREE of the following, each within 1000 words.

Draw diagrams / flowcharts wherever necessary.

3 x 20 = 60 Marks

9. Give a brief account on the economic importance of Fungi.
10. Write in detail on the lifecycle of *Rhizopus*.
11. Summarise the different types of sexual reproduction in yeast with illustrations.
12. Describe with illustrations, the lifecycle of *Puccinia*.
13. Discuss in detail on the industrial production of penicillin.
14. Give an account on the types, internal and external structures of lichens. Add a note on sexual reproduction in lichens.

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