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2004E121

Candidate's Seat No :_____

B.Sc. Sem-6 Examination

CC 311

Environmental Science

Time : 2-00 Hours] **April 2022** **[Max. Marks : 50**

Section I

Instructions: All questions in section I carry equal marks.
Attempt Any three in section I.

1) (a) Explain traditional and molecular approach used for fungi classification. (7)
   (b) Discuss the general characteristics of fungi. (7)
2) (a) Write a note on vegetative modifications in fungi. (7)
   (b) Enlist the major criteria used for the classification of fungi. (7)
3) (a) Elaborate the heterokaryosis in fungi. (7)
   (b) Describe the taxonomic status, reproduction, and importance of *Saccharomyces cerevisiae.* (7)
4) (a) Describe parasexual cycle. (7)
   (b) Discuss mating systems among fungi. (7)
5) (a) What is systemic mycosis? Explain the symptoms, causes and control of it. (7)
   (b) Write a note on mycosis. (7)
6) (a) Enlist the methods used to diagnose fungal infection. (7)
   (b) Describe the causative agent, treatment, and control of cutaneous mycosis. (7)
7) (a) What is bioremediation? Discuss the role of fungi in bioremediation. (7)
   (b) Write a short note on primary metabolites produced by fungi and its economic importance. (7)
8) (a) Describe the various methods used to preserve fungal cultures. (7)
   (b) Write the enzymes produced by fungi with its biotechnological applications. (7)

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Section II

9. Short Questions (Attempt Any Eight). (8)

1. Write any two secondary metabolites produced by the fungi.
2. Define superficial mycoses.
3. Name the scientist divided fungi into three divisions.
4. What is hypha?
5. Name two types of flagella found among the fungal spores.
6. Which fungal is useful as a bioinsecticide?
7. Name the fungi is responsible for subcutaneous mycoses.
8. Give the example of club fungi.
9. Name any two fungi produce antibiotics.
10. What is a nutritional importance of fungi?
11. Which fungus is used to produce citric acid?
12. What is aflatoxin?