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**UNIVERSITY EXAMINATIONS
2023/2024 ACADEMIC YEAR**

THIRD YEAR FIRST SEMESTER

MAIN EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOLOGY

COURSE CODE: SBT 311

COURSE TITLE: GENERAL MYCOLOGY

DATE: 7TH DECEMBER

TIME: 2.00 - 4.00 PM

INSTRUCTIONS TO CANDIDATES

Answer Question one (1) and any other two (2) Questions. Question one is compulsory and carries 30 marks, the other Questions carry 20 marks each.

TIME: 2 Hours

Question one

- a) What are the basic stages to the life cycle of a mushroom? (2 marks)
- b) State 4 general characteristics of fungi (2 marks)
- c) State the various classes of fungi (5 marks)
- d) What are biocontrol fungi? Name 2 such agents (3 marks)
- e) Briefly explain the biotechnological use of fungi (3 marks)
- f) Explain the importance of fungi as plant pathogens (5 marks)
- g) State the importance of fungi in agriculture and as a source of food (5 marks)
- h) How do fungi create genetic diversity? (5 marks)

Question two

Discuss in detail the various mycotoxins (20 marks)

Question three

Discuss the disease and symptoms caused by various fungal agents (20 marks)

Question four

Discuss the characteristics and life cycle of fungi imperfecti (20 marks)

Question five

Discuss the method of sexual reproduction in fungi (20 marks)