



BONDO UNIVERSITY COLLEGE

UNIVERSITY EXAMINATION 2012/2013

**3RD YEAR 2ND SEMESTER EXAMINATION FOR THE
DEGREE OF BACHELOR OF EDUCATION SCIENCE WITH
IT (REGULAR)**

COURSE CODE: SBT 307

TITLE: MYCOLOGY1

DATE: 6/12/2012

TIME: 12.00-14.00PM

DURATION: 2HOURS

INSTRUCTIONS

- 1) This paper contains sections.**
- 2) Answer ALL questions in section A and ANY other TWO [2] questions in section B .**
- 3) Write ALL answers in the booklet provided.**

SECTION A: ANSWER ALL QUESTIONS IN THIS SECTION (30 MARKS)

1. Members of the class Myxomycetes have been considered as protozoans rather than fungi, briefly explain. (3marks)
2. Describe the major characteristics of Oomycetes. Which subdivision do they belong? (3marks).
3. The class Zygomycetes is characterized by the formation of the zygospore. Describe the formation of the zygospore (3marks)
4. In which order do you expect to find the following genera? (3marks)
 - a. Saprolegnia-----
 - b. Bremia-----
 - c. Glomus-----
 - d. Candida-----
 - e. Amanita-----
 - f. Fusarium-----
5. With the help of a labeled diagram illustrate the development of an ascus. (3marks)
6. Outline the process of composting in the cultivation of *Agaricus bisporus* (3marks)
7. Write short notes on the following; (3marks)
 - a. Heterothallism and Homothallism
 - b. Ectophytic and Endophytic mycelium
8. Give a brief account on aflatoxins. (3marks)
9. Explain how you would use the sporangium to classify members of the family Mucoracea. (3marks)
10. Outline the types of mycelia found in Basidiomycetes (3marks)

SECTION B: ESSAYS ; ANSWER ANY TWO QUESTIONS IN THIS SECTION (70 MINUTES)

1. Write an essay on various mechanisms of plasmogamy in fungi (20 marks)
2. Discuss the process of parasexuality in fungi indicating the classes in which it occurs. (20 marks)
3. Describe the life cycle of *Puccinia graminis*. (20 marks)
4. Fungi have various roles in nature. Discuss. (20 marks)