



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE &
TECHNOLOGY UNIVERSITY EXAMINATIONS 2012/2013**

**3RD YEAR 1ST SEMESTER EXAMINATION OF BACHELOR OF
EDUCATION (SCIENCE) WITH IT**

REGULAR

COURSE CODE: SBT 307

COURSE TITLE: MYCOLOGY I

DATE: 23/8/13

TIME: 11.30 -1.30 PM

DURATION: 2 HOURS

INSTRUCTIONS

- 1. This paper contains two sections (A and B).**
- 2. Answer ALL questions in Section A and any Two (2) questions in Section B.**
- 3. Write ALL answers in the booklet provided.**
- 4. You may use illustrations in your answers as you deem necessary.**

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

1. Give a brief account of the sexual spores in fungi. (3marks)
2. Write short notes on three major roles of fungi. (3marks).
3. Describe the various types of plasmogamy in fungi (3marks)
4. In which family do you expect to find the following genera? (3marks)
 - a. Saprolegnia_____
 - b. Albugo _____
 - c. Erisiphe_____
 - d. Candida_____
 - e. Puccinia_____
 - f. Pythium_____
5. Distinguish between endobiotic –holocarpic and eucarpic polycentric forms of thalli in Chytridiales (3marks)
6. Give a brief account of the family Agaricaceae (3marks)
7. Write short notes on the following ;(3marks)
 - a. Cleistothecium
 - b. Haplo-diplobiontic life cycle
 - c. Conidiophores
8. What is parasexuality? Explain it's significance in Deuteromycetes. (3marks)
9. Describe the development of a basidium in basidiomycetes. (3marks)
10. Briefly discuss conidiogenesis in fungi. (3marks)

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

11. Write an essay on the vegetative structures of fungi(20 marks)
12. Give a detailed account on the life cycle of *Phytophthora infestans* (20 marks)
13. The order Aspergillales is an important fungal group, discuss. (20 marks)
14. Write an essay on the importance of smuts as plant parasites (20 marks)