



THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

A. M. E. C. E. A

MAIN EXAMINATION

JANUARY – APRIL 2015 TRIMESTER

FACULTY OF SCIENCE

DEPARTMENT OF NATURAL SCIENCES (BIOLOGY)

REGULAR PROGRAMME

BIO 206: GENERAL MYCOLOGY

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Date: April 2015	Duration: 2 Hours
Instructions: Answer Question ONE and any other TWO Questions.	

- Q1. a) Name the cetiological agent for the following fungal diseases:
- i) Late blight in potatoes (1 mark)
 - ii) Smut (1 mark)
 - iii) Rust (1 mark)
 - iv) Dumping off (1 mark)
- b) Using relevant examples explain the role of fungi as bio control agents. (4 marks)
- c) Explain nutrition and metabolism in fungi. (4 marks)
- d) Describe various types of Ascocarps among Ascomycetes. (4 marks)
- e) Using illustration, explain the following forms of yeast cell division.
- i) Fission yeast (division) (3 marks)
 - ii) Budding yeast division (3 marks)
- f) Explain various methods of fungal isolation. (10 marks)
- g) Distinguish between
- i) Coenocytic and septate cells. (2 marks)
 - ii) Alkalophilic and Xerophilic (2 marks)
- Q2. Discuss fungal Ecology. (20 marks)
- Q3. Using examples classify fungi into various taxonomic units. (20 marks)
- Q4. Discuss human mycoses. (20 marks)
- Q5. Discuss various types of a sexual spores (use illustrations where possible.) (20 marks)