



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2010/2011

**FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE**

SBT 302: MYCOLOGY

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DATE: FRIDAY 26TH NOVEMBER 2010 TIME: 2.00 P.M. - 4.00 P.M.

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INSTRUCTIONS

Answer ALL Questions in Section A and One Question in Section B.

Answers in Section A should be written in the spaces provided on the question paper.

SECTION A: SHORT ANSWER QUESTIONS (5 MARKS EACH)

1. Give five reasons why it is important to study fungi.

2. In relation to the life cycle of *Dicyostelium discoideum* explain the following terms:

a) Aggregation stage (3 marks)

b) Macrocyt (2 marks)

3. Give a summary of the materials necessary for the preparation of temporary mounts of fungal cultures.

4. Discuss the importance of the genus *Pythium*.

5. Differentiate between a sporangium and a pycnidium.

6. In reference to fungal sexual reproduction, explain the following terms:

a) Gametangial copulation

b) Planogametes

c) Somatogamy

d) Isogamy

e) Gametangial contact

8. Write short notes on the medical importance of *Aspergillus*. Cite examples.

SECTION B: ESSAY (30 MARS)

1. Describe the procedure for isolating zoosporic fungi from water.
2. Write an essay on fungi as pathogens.
3. Give an account of the life cycle of *Saprolegnia*.