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DEPARTMENT OF PLANT SCIENCE AND APPLIED ZOOLOGY
HARMATTAN SEMESTER EXAMINATION (2007/2008 SESSION)

COURSE TITLE: MYCOLOGY
COURSE CODE: PLS 305
INSTRUCTION: Answer Three (3) questions, One (1) from each Section.
TIME ALLOWED: 2^{1/4} HOURS

SECTION A

1. Compare and contrast the life cycles of *Mucor* and *Saprolegnia*
2. (a) Describe the life cycle of the mushroom.
(b) How does this differ from that of a named ascomycetes.

SECTION B

3. (a) With a well labeled diagram only describe the morphology of a named yeast.
(b) Discuss the term budding with reference to *Saccharomyces cerevisiae*
(c) Itemize the economic importance of yeast.
4. (a) What do you understand by the following terms
i. Fragmentation ii. Fission iii. Budding
(b) Enumerate the Economic Importance of fungi

SECTION C

5. A pathogenic fungus was found to be implicated in a vegetable eaten by a student in a school hostel.
a) How would you isolate the pathogenic fungus?
b) List the precautions observed in the course of isolation.

Ascomycete
1) Neurospora
2) Penicillium
3) Aspergillus
4) Saccharomyces