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OLABISI ONABANJO UNIVERSITY
FACULTY OF SCIENCE
DEPARTMENT OF PLANT SCIENCE AND APPLIED ZOOLOGY
2011/2012 HARMATTAN SEMESTER EXAMINATION

COURSE CODE: PLS 305 **COURSE TITLE:** MYCOLOGY **TIME ALLOWED:** 1 1/2 HOURS

INSTRUCTIONS: Attempt ONE question from Section A and TWO from Section B. Sections A and B should be answered in separate booklets.

Section A

1. Using annotated diagrams **ONLY**, show the sexual reproduction cycle of a named fungus each belonging to the class Basidiomycetes, Zygomycetes and Oomycetes.
2. Provide the complete Taxonomic hierarchy for species of fungi belonging to the class Basidiomycetes and Oomycetes. Zygomycetes

Section B

- 1a. Define psychrophilic, thermophilic, psychrotolerant, and thermotolerant fungi?
- b. List the advantages and disadvantages of: (i) different media for fungal growth.
(ii) different techniques of measuring fungal growth.
2. Discuss exhaustively the different ways by which man benefits from fungi.
- 3a. Draw the structural diagrams of Aflatoxin G1 and B1 produced by Aspergillus flavus and that of ergometrine from Claviceps purpurea.
- b. List 7 types of fungal diseases in humans and their causative organisms.

2) Yeast is a beneficial effect.

3) molds and yeasts are important in food spoilage and manufacturing.

4) Some species of yeast are used in fermentation processes.

5) Yeast are involved in the production of alcohol from palm wine.

6) Yeast are used in the manufacturing of beer.

3b) Aspergillus sp - Aspergillus fumigatus and C. clavatus.

1) Ringworm

2) Fungal eye infections

3) Athlete foot

4) Candidiasis

5) Blastomycosis

6)

7)

Importance of fungi

1) They serve as directly source to man e.g mushroom

2) Performs essential role in decay of organic matter.

3) Act as leavening agent in bread, bakers of various food products as wine, beer.

4) Used as antibiotics

5) Enzymes produced by fungi are industrially & in the production of detergents.