

OLABISI ONABANJO UNIVERSITY, AGO - IWOYE

DEPARTMENT OF MICROBIOLOGY

B. Sc (Microbiology) 2016/2017 HARMATTAN SEMESTER EXAMINATION

Course code and title: MCB305 - MYCOLOGY

Instruction: Attempt any THREE (3) questions in all. At least one question must be answered from each section. Time Allowed: 1hr 45mins

SECTION A

- 1a. List ten (10) characteristics of fungi.
- b. Explain the following terms
 - i. Gametangiogamy
 - ii. Spermatization
 - iii. Plasmogamy
- c. Draw the life cycle of *Saccharomyces cerevisiae*.
- 2a. Citing specific examples, highlight seven (7) importance of fungi.
- b. Classify fungi according to Hanksworth and Kirk.
- c. Draw four (4) asexual spores produced by fungi.

SECTION B

- 3a. List the main distinguishing features of fungi in the Phylum Basidiomycotina.
- b. Make diagrammatic representations of Basidiomycotina with particular emphasis on the distinguishing features listed in your answers under question (3a) above.
- 4a. Give ten (10) common names of fungi under Phylum Basidiomycotina. Write out the major characteristic features of each of the named fungi.
- b. Write notes on the following:
 - i. Ecology of Basidiomycotina
 - ii. Importance of Basidiomycotina

SECTION C

5. Write short notes on the following:
 - a. Moniliales
 - b. Sphaeropsidales
 - c. Melanconiales
 - d. Agonomycetales
- 6a. What are the major characteristics of Deuteromycota?
- b. Classification scheme for Deuteromycota is artificial and does not show relationship between the taxa. Explain