

OLABISI ONABANJO UNIVERSITY, AGO - IWOYE

DEPARTMENT OF MICROBIOLOGY

B. Sc (Microbiology) 2015/2016 HARMATTAN SEMESTER EXAMINATION

Course code and title: MCB305 – Mycology

Instruction: Attempt three (3) questions in all. One (1) question must be answered from each section. Time Allowed: 1¾ Hours

SECTION A

- 1(a) Describe asexual reproduction in a named member of the family Mucoraceae
- (b) Outline the classification of fungi as proposed by Alexopoulos.
- (c) List the important features of the class Chytridiomycetes
- 2(a) Highlight five (5) general characteristics of fungi
- (b) Explain the meaning of the following:
 - [i] Plasmogamy
 - [ii] Somatogamy
 - [iii] Eucarpic
 - [iv] Gametangial copulation
- (c) Draw the life cycle of *Dictyostelium*

SECTION B

- 3 Parasexual cycle is viewed by some mycologists as a means of maintaining diversity which is a key to species survival. Describe the process in *Aspergillus nidulans*.
- 4(a) Highlight on the distinguishing features of the Deuteromycotina. Why is this fungal group often referred to as form-phyllum?

SECTION C

- 5(a) What are the major characteristics of the Basidiomycotina?
- (b) Distinguish between the Uredinales and Ustilaginales
- 6 With the aid of diagrammatic representations, describe the life cycles of (i) *Agaricus* and (ii) *Puccinia graminis*