



# NATIONAL OPEN UNIVERSITY OF NIGERIA

National Open University Of Nigeria

Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja

Faculty of Science

APRIL 2019 EXAMINATION

**COURSE TITLE: MYCOLOGY**

**COURSE CODE: BIO 311**

**TIME ALLOWED: 2 HOURS**

**INSTRUCTION: ANSWER QUESTION 1 AND ANY OTHER THREE QUESTIONS**

1. a. Explain **five** criteria commonly used in the primitive classification of fungi. Highlight their advantages and disadvantages. **10 marks**  
b. Differentiate between asexual and sexual reproduction in fungi. **3 marks**  
c. Discuss any **three** types of the following:  
(i) Asexual spores **6 marks**  
(ii) Sexual spores **6 marks**

2. (a). Give the distinguishing characteristics of the different classes of fungi shown in the table below and give an example in each case.

Fungi Class	Distinguishing Characters	Example
Chytridiocetes		
Oomycetes		
Zygomycetes		
Ascomycetes		
Basidiomycetes		
Deuteromycetes		
Yeast		

**11 marks**

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- (b). Distinguish between lower and higher fungi. **4 marks**

3. (a) The nomenclature of fungi is binomial. Explain giving one example **4 marks**  
(b). Give the standard name endings for the following taxa of fungi: **6 marks**

Divisions:

Subdivisions:

Classes:

Sub-classes:

Order:

Family:

- (c). How are systemic mycoses acquired? Give **three** examples each of the two groups of systemic mycoses. **5 marks**
4. (a). Briefly describe wine production **7 marks**  
(b). Discuss the discovery of antibiotics **5 marks**  
(c). What is blastomycosis and which organism causes it? **3 marks**
5. (a). Distinguish very clearly between superficial and subcutaneous mycoses. **5 marks**  
(b). Give three examples each for superficial and subcutaneous mycoses. **6 marks**  
(c). Discuss briefly any one of the examples of subcutaneous mycoses. **4 marks**