



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS**  
**SEPTEMBER/OCTOBER 2015 EXAMINATION**

**SCHOOL OF SCIENCE AND TECHNOLOGY**

**COURSE CODE: BIO 311**

**COURSE TITLE: MYCOLOGY**

**TIME ALLOWED: 2 HOURS**

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

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

<b>Fungi Class</b>	<b>Distinguishing Characters</b>	<b>Example</b>
Chytridiocetes		
Oomycetes		
Zygomycetes		
Ascomycetes		
Basidiomycetes		
Deuteromycetes		
Yeast		

**11 marks**

- (b). Distinguish between lower and higher fungi.

**4 marks**

- (c). Write briefly on Cryptococcosis as one of the systemic mycoses.

**10 marks**

2. Discuss **five** criteria commonly used in the primitive classification of fungi highlighting their advantages and disadvantages.

**15 marks**

3. (a). Explain with an example how the nomenclature of fungi is binomial.

**3 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 groups of systemic mycoses. **6 marks** two

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**
6. (a). Differentiate between asexual and sexual reproduction in fungi. **3 marks**  
(b). Discuss any **three** types of the following:  
(i) Asexual spores **6 marks**  
(ii) Sexual spores **6 marks**