



*(Knowledge for Development)*

# **KIBABII UNIVERSITY**

## **UNIVERSITY EXAMINATIONS 2016/2017 ACADEMIC YEAR**

### **THIRD YEAR FIRST SEMESTER SPECIAL/SUPPLEMENTARY EXAMINATION**

**FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOLOGY**

**COURSE CODE: SBT 311**

**COURSE TITLE: GENERAL MYCOLOGY**

**DATE: 25/09/2017**

**TIME: 11:00 -1:00 P.M**

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#### **INSTRUCTIONS TO CANDIDATES**

Answer Question one (1) and any other two (2) Questions. Question one is compulsory and carries 30 marks, the other Questions carry 20 marks each.

TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over



KIBU observes ZERO tolerance to examination cheating



1. (a) (i) State the role of clamp connection during reproduction in Basidiomycetes (1 mark)  
(ii) Differentiate between monokaryotic and dikaryotic mycelia (2 Marks)  
(iii) Differentiate Plasmogamy from Karyogamy in fungi (2 marks)  
(iv) Briefly describe budding in Basidiomycotina. (5 marks)
- (b) (i) Name the fungi that causes potato blight disease. (1 Marks)  
(ii) Briefly describe sexual reproduction in Oomycota. (4 Marks)  
(iii) Explain reasons as to why Oomycota are not true fungi. (5 Marks)
- (c) (i) Briefly describe the distribution of Ascomycotina (3 Marks)  
(ii) Explain the relationship between Bark beetles (family Scolytidae) and the Ascomycetes (3 marks)  
(iii) Describe conidiospores in Ascomycetes (4 marks)
2. Describe the life cycle of *Rhizopus stonifera*. (20 Marks)
3. Discuss physiology of fungi. (20 Marks)
4. Describe classification of the sub division Deuteromycota. (20 Marks)
5. Describe sexual reproduction in basidiomycetes. (20 Marks)