



(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2017/2018 ACADEMIC YEAR

THIRD YEAR FIRST SEMESTER SUPPLEMENTARY EXAMINATION

**FOR THE DEGREE OF BACHELOR OF SCIENCE AGRICULTURE,
EDUCATION**

COURSE CODE: SBT 311

COURSE TITLE: GENERAL MYCOLOGY

DATE: 10/10/2018

TIME: 3:00 -5:00 P.M.

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



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1. (a) (i) Draw a well labelled diagram of a 'fruiting body' of basidiomycetes. (3 mark)
- (ii) Distinguish between secondary and primary fungal saprophytes. (3 marks)
- (iii) Explain two advantages that Septate mycelia have over aseptate mycelia in terms of adaptation potential. (4 marks)
- (b) (i) Highlight the characteristics of different fungal pathogens categories basing on their mode of interaction with the host. (3 marks)
- (ii) Outline the difference in the formation of sporangiospores and conidiospores. (3 marks)
- (iii) Name two genera of fungi under Deuteromycetes and their economic importance. (4 marks)
- (c) (i) Briefly describe the distribution of the Ascomycota. (3 marks)
- (ii) Explain the significance of the mycorrhizal associations to fungi. (3 marks)
- (iii) Explain the significance of Woronin bodies in Ascomycota. (4 marks)
2. Describe sexual reproduction in *Puccinia graminis* (20 marks)
3. Discuss the ecological roles of fungi. (20 marks)
4. Describe fungi as a biocontrol agent. (20 marks)
5. Discuss the life cycle of a sac fungi. (20 marks)