SOUTH EASTERN KENYA UNIVERSITY

UNIVERSITY EXAMINATIONS 2016/2017

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOLOGY

SBL301: GENERAL MYCOLOGY

DATE: 13TH APRIL, 2017 TIME: 8.00-10.00 A.M

INSTRUCTIONS TO CANDIDATES

(a) Answer ALL the Questions in Section A

(b) Answer ANY TWO Questions in Section B

(c) Illustrate your answers with well labeled diagrams where appropriate

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SECTION A (30 Marks)

1. Explain the composition of the fungal cell wall.**(3 Marks)**
2. How does food storage in fungi differ from that in plants?**(3 Marks)**
3. Explain sexual reproduction in Basidiomycotina. **(3 Marks)**
4. Explain whatanectotrophic mycorrhiza is?**(3 Marks)**
5. Give reasons why fungi are considered more advanced than plants. (**3 Marks**)
6. Explain how spores are adapted to land. (**3 Marks**)
7. Explain**three** ways by which asexual reproductionoccurs in fungi. (**3 Marks**)
8. Outlinefungi classification based on morphology.**(3 Marks)**
9. Describe how one can culture a pure sample of a leaf spot fungi in a laboratory. **(3 Marks)**
10. Explain the terms; conidia, sclerotia and chlamydospores.**(3 marks)**

SECTION B (40 Marks)

11. Discuss the general body structure of fungi. **(20 Marks)**
12. Discuss how fungi obtain food:

    (a)asparasites. **(10 Marks)**

    (b) assymbionts.**(10 Marks)**
13. (a). Describe how fungi produce humus.**(10 Marks)**

    (b). Giving an example describe the characteristics of zygomycotina**(10 Marks)**
14. (a). Giving examples, describe asci in advanced ascomycetes**. (10 Marks)**

    (b) Discuss the economic importance of fungi.**(10 Marks)**