JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE & TECHNOLOGY

SCHOOL OF BIOLOGICAL AND PHYSICAL SCIENCES

UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOLOGICAL SCIENCES AND BACHELOR OF EDUCATION SCIENCE WITH IT

3RD YEAR 2ND SEMESTER 2018/2019 ACADEMIC YEAR

MAIN CAMPUS - REGULAR

COURSE CODE: **SBI 3323/SBT 303**

COURSE TITLE: **MYCOLOGY**

EXAM VENUE: **LAB 4** **STREAM: (BIO/EDS)**

DATE: **24/04/2019** **EXAM SESSION: 12.00-2.00PM**

TIME: 2 HOURS

Instructions:

1. **Answer ALL questions in Section A and Any two questions in Section B**
2. **Candidates are advised not to write on question paper**
3. **Candidates must hand in their answer booklets to the invigilator while in the examination room**

SECTION A: SHORT ANSWER QUESTIONS (30 MARKS)

1.	Identify three distinguishing features of fungi	(3 Marks)
2.	Describe types of hyphae in Fungi	(3 Marks)
3.	Identify three specialised somatic structures in fungi	(3 Marks)
4.	Explain what parasexuality is and comment on its significance	(3 Marks)
5.	Distinguish between Rhizopus and Mucor	(3 Marks)
6.	Identify three methods of sexual reproduction in fungi	(3 Marks)
7.	Distinguishing between plasmogamy and karyogamy	(3 Marks
8.	List three types of hyphal aggregation in fungi	(3 Marks)
9.	Distinguish between holocarpic and eucarpic thallus	(3 Marks)
10.	Describe the structure of fungal flagellum	(3 Marks)

SECTION B: ESSAY QUESTIONS (40 MARKS)

11. Write an essay on the economic importance of fungi (20 Marks)

12. Write a detailed account of the fungi Mycorrhiza (20 Marks)

13. Discuss the asexual mode of reproduction in fungi (20 Marks)

14. Discuss fungal classification as described by Ainsworth and Baltimore. (20 Marks)