

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

FOURTH YEAR FIRST SEMESTER 2018/2019 ACADEMIC YEAR MAIN CAMPUS - REGULAR

COURSE CODE: SBI 3434

COURSE TITLE: ADVANCED MYCOLOGY

EXAM VENUE: STREAM: (BSC)

DATE: EXAM SESSION:

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 OUESTIONS (30 MARKS)

1. Distinguish between plasmodium and pseudo-plasmodium			lli in fungi	
			(3 marks)	
2.	Explain the	structural features of fungal cell walls	(3 marks)	
3. Define the following terms				
	i)	Memnospore	(1 mark)	
	ii)	Somatogamy	(1 mark)	
	iii)	Anisokont	(1 mark)	
4.	Use a diagr	am to show the vertical section of an ascospore	(3 marks)	
5.	. Distinguish between gametangial contact and gametangial copulation			
			(3 marks)	
6.	6. State the difference between tretic and phialidic development of the			
	initial		(3 marks)	
7.	List the seq	uence of events in the parasexual cycle of fungi	(3 marks)	
8.	Illustrate th	e generalized internal structure of a basidiospore	(3 marks)	
9.	What are th	ne benefits derived by the algal partner in a lichen as	gal partner in a lichen association	
			(3 marks)	
10. Distinguish between exploitation and antibiosis nutrition types in parasitic fung				
			(3 marks)	
SECTION B: ESSAY OUESTIONS (40 MARKS)				
11.	Describe th	e methods for isolation and culture of soil-borne fu	ngi (20 marks)	
12. Discuss the sexual and asexual fruiting bodies in fungi			(20 marks)	
13. Discuss the life patterns and classification of lichens			(20 marks)	
14. Describe the morphology and dispersal mechanisms of five types of fungal spores				
			(20 marks)	