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OFFICE OF THE DEPUTY PRINCIPAL ACADEMICS, STUDENT AFFAIRS AND RESEARCH

UNIVERSITY EXAMINATIONS 2018/2019 ACADEMIC YEAR

SECOND YEAR FIRST SEMESTER REGULAR EXAMINATION

FOR THE DEGREE OF BACHELOR OF SCIENCE IN MICROBIOLOGY

COURSE CODE:

BOT 210

COURSE TITLE:

CRYPTOGAMIC BOTANY

DATE: 10TH DECEMBER, 2018

TIME: 2.00 PM - 5.00 PM

INSTRUCTIONS TO CANDIDATES

SEE INSIDE



THIS PAPER CONSISTS OF 3 PRINTED PAGES

PLEASE TURN OVER

BOT 210

BOT 210: CRYPTOGAMIC BOTANY

STREAM: BSc in Microbiology DURATION	DURATION: 3 Hours	
INSTRUCTIONS TO CANDIDATES		
i. Answer ALL questions from section A and any THREE from section B.		
ii. Diagrams should be used whenever they serve to illustrate the answer.		
iii. Do not write on the question paper.		
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SECTION A (24 MARKS)		
Question One		
a) Define the following:-		
i. Leucoplast.	(1 Mark)	
ii. Prophage	(1 Mark)	
iii. Cryptogam	(1 Mark)	
iv. Attenuated viral vaccine	(1 Mark)	
b) Enumerate three types of leucoplasts in algae.	(3 Marks)	
c) Compare and contrast two unique characteristics in a plant and animal cells.	(2 Marks)	
d) Outline three features of bryophytes.	(3 Marks)	
Question Two		
	(2 Marks)	
a) Distinguish between homothallic thallus and heterothallic thallus. b) Explain on the diversity of viral shapes	(2 Marks)	
b) Explain on the diversity of viral shapes.	(6 Marks)	
c) State any four economic importance of fungi.	(4 Marks)	

SECTION B (36 MARKS)

Question Three	
a) Explain the diverse modes of nutrition in fungi.	(6 Marks)
b) Describe sexual reproduction in mosses.	(6 Marks)
Question Four	
a) Describe the structure of mycelium in Rhizopus stolonifer.	(6 Marks)
b) Draw and label a moss plant.	(6 Marks)
Question Five	
a) Give an account of the types of lifecycles in algae.	(8 Marks)
b) Outline two features of a viroid.	(2 Marks)
c) State the contributions of the following scientists in the field of botany.	
i. Wendell Stanley	(1 Mark)
ii. Beijerinck	(1 Mark)
Question Six	
a) Give an account of three forms of symbiotic relationship between plants	(6 Marks)
b) Explain on the following terms:-	
i. Anisogamy	(2 Marks)
ii. Oogamy	(2 Marks)
iii. Isogamy	(2 Marks)
Question Seven	
a) Outline four similarities between sub-division Ascomycotina and Basidion	nycotina.
	(4 Marks)
b) Classify algae on the basis of photosynthetic pigments.	(8 Marks)

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