(b) Discuss pathogenesis and virulence of Superficial Mycoses. [7 marks]

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BMET 334

UNIVERSITY EXAMINATIONS

THIRD YEAR EXAMINATION FOR THE AWARD OF DEGREE OF **BACHELOR OF SCIENCE IN BIOMEDICAL SCIENCE AND TECHNOLOGY**

BMET 334: MEDICAL BACTERIOLOGY AND MYCOLOGY

STREAMS: BSC (BMET)

CHUKA

DAY/DATE: MONDAY 03/12/2018

INSTRUCTIONS:

- Answer Question One and any Two Questions •
- Do not write on the question paper

QUESTION ONE (30 MARKS)

(a)	a) Discuss the use of the following methods in detection and identification of bac				
	(i) (ii) (iii)	Methyl red test Elek's test Ziehl Neelsen staining method	[3 marks] [3 marks] [3 marks]		
(b)	Aflatoxins are potent mycotoxins whose consumption causes illness to both humans an animals. Discuss pathological effect of aflatoxins on human health. [8 marks]				
(c)	Give	different types of media used to culture fungi and their purposes.	[6 marks]		
(d)	Describe the structure and chemical composition of Gram-negative cell wall bacteria. [7				
marks QUE	-	TWO (20 MARKS)			
(a)	What	are mycoses?	[2 marks]		



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TIME: 2 HOURS

2.30 PM - 4.30 PM

- (c) Candida albicans are responsible for more mycotic illness and cause great variety of mycoses than any other species of fungi.
 - (i) List the diseases and clinical features associated with candidiasis. [5 marks]
 - (ii) Explain how candidiasis can be diagnosed and treated. [6 marks]

QUESTION THREE (20 MARKS)

Discuss *Pseudomonas aeruginosa* under the following headings;

(a)	Isolation and identification	[6 marks]
(b)	Virulence	[6 marks]
(c)	Clinical significance	[6 marks]
(d)	Treatment	[2 marks]

QUESTION FOUR (20 MARKS)

(a)	List and describe all the disease conditions caused by <i>Clostridium</i> species	s. [12 marks]
(b)	Describe disease conditions caused by Chlamydia trachomatis.	[8 marks]