

# NAMIBIA UNIVERSITY

OF SCIENCE AND TECHNOLOGY

### **FACULTY OF HEALTH AND APPLIED SCIENCES**

#### **DEPARTMENT OF NATURAL AND APPLIED SCIENCES**

QUALIFICATION: BACHELOR OF SCIENCE HONOURS		
QUALIFICATION CODE: 08BOSC	LEVEL: 8	
COURSE NAME: ENVIRONMENTAL INDUSTRIAL AND MEDICAL BIOTECHNOLOGY	COURSE CODE: EIM821S	
SESSION: NOVEMBER 2019	PAPER: THEORY	
DURATION: 3 HOURS	MARKS: 120	

FIRST OPPORTUNITY EXAMINATION QUESTION PAPER				
EXAMINER(S)	Prof Percy Chimwamurombe			
MODERATOR:	Dr Jean-Damascene Uzabakiriho			

INSTRUCTIONS	
1. Answer ALL the questions.	
2. Write clearly and neatly.	
3. Number the answers clearly.	
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# **PERMISSIBLE MATERIALS**

Non-programmable Calculators

## **ATTACHMENTS**

None

THIS QUESTION PAPER CONSISTS OF 2 PAGES (Including this front page)

	S	ECTION A: [	60]
	1.	Bacteria have a role in climate change. Comment of this statement.	(10)
	2. Describe five the pitfalls to be concerned about in preservation of microbes		
			(10)
	3.	Describe the key steps in wastewater purification until it is potable	(10)
	4.	Describe the process of paternity identification using DNA.	(10)
	5.	Motivate for the use of RNA in forensic work	(10)
	6.	Appraise stem research in Namibia.	(10)
S	ecti	on B: Essays	[60]
	1.	Write an essay describing the establishment of an industrial	
		enterprise to remediate oil-spilled soils and freshwaters of Namibia.	(30)
	2.	Write a detailed essay on gene therapy and pharmacogenomics	

in Namibia critically appraising the applications.

(30)