

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 CODE: EIM821S	COURSE NAME: ENVIRONMENTAL INDUSTRIAL AND MEDICAL BIOTECHNOLOGY		
SESSION: JANUARY 2019	PAPER: THEORY		
DURATION: 3 HOURS	MARKS: 120		

SECOND OPPORTUNITY/SUPPLEMENTARY EXAMINATION QUESTION PAPER		
EXAMINER:	Prof Percy Chimwamurombe	
MODERATOR:	Dr Jean-Damascene Uzabakiriho	

	INSTRUCTIONS	
1	Answer ALL the questions.	
2.	Write clearly and neatly.	
3	Number the answers clearly.	

PERMISSIBLE MATERIALS

Non-programmable Calculators

ATTACHMENTS

None

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

SECTION A	2. 在2010年1月1日 A.E. F. A. B. P. B. C. F. S.		[60 marks]
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1.		Studying extremophiles be of benefit to mankind. Comment on this statement.	
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	2.	Write short notes on microbial wastewater treatment.	(10)
	3.	Explain the process of setting up a new industrial product.	(10)
	4.	Evaluate the benefit of understanding drug metabolizing enzymes.	(10)
	5.	What is personalized medicine? Critically appraise it.	(10)
	6.	Describe using examples the use of pharmaceutical biotechnology.	(10)

Section B (Essays Section)

[60 marks]

- Considering the problems leading to low productivity in Namibia, write a concise essay where you will be giving biotechnological solutions to this low agricultural productivity. (30)
- 2. Use your understanding of DNA forensics and write a proposal of how it could be used to solve three prominent criminal problems in Namibia. (30)