

NAMIBIA UNIVERSITY

OF SCIENCE AND TECHNOLOGY

FACULTY OF HEALTH, NATURAL RESOURCES 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 2023	PAPER: THEORY	
DURATION: 3 HOURS	MARKS: 120	

SECON	D 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 [60 marks]

6.	Describe using examples the use of pharmaceutical biotechnology.	(10)
5.	What is personalized medicine? Critically appraise it.	(10)
4.	Evaluate the benefit of understanding drug metabolizing enzymes.	(10)
3.	Explain the process of setting up a new industrial product.	(10)
2.	Write short notes on microbial wastewater treatment.	(10)
1.	Studying extremophiles be of benefit to mankind. Comment on this statement.	(10)

- 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)