

TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF PURE & APPLIED SCIENCES

UNIVERSITY EXAMINATION FOR:

BACHELOR OF TECHNOLOGY IN INDUSTRIAL MICROBIOLOGY AND BIOTECHNOLOGY

AAB 4301: RESEARCH METHODOLOGY

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: SEPTEMBER 2018

TIME: 2 HOURS

DATE: Sep 2018

PAPER 2

Instructions to Candidates

You should have the following for this examination Answer Booklet, examination pass and student ID This paper consists of **FIVE** questions. Attempt question ONE (Compulsory) and any other TWO questions **Do not write on the question paper.**

Question ONE

a)	List 3 importance of literature survey	(3 marks)
b)	Explain the advantages of factorial design in experiment	(4 marks)
c)	Highlight the following:	
	i) the components of a research problem	(5 marks)
	ii) Highlight five factors that lead to systematic bias during sampling	(5 marks)
	iii) Highlight the key elements that should be included in an abstract	(5 marks)
	State any 3 avenues for disseminating research findings Define the following	(3 marks)
~)	i) Plagiarism ii) Sampling	(2 marks) (2 marks)

Question TWO

Question THREE

a) Describe the general outline of a technical report	(10 marks)
b) Explain the merit of direct personal interview	(10 marks)

Question FOUR

Giving relevant examples describe the difference between dependent and independent variables (10 mks)

Question FIVE

a)	Discuss unique characteristics of research	(10 mks)
b)	Highlight the advantages of cluster sampling	(10 mks)