

TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES DEPARTMENT OF PURE & APPLIED SCIENCES UNIVERSITY EXAMINATION FOR:

DEGREE

ACH 4301 : QUALITY CONTROL, ASSURANCE AND WASTE MANAGEMENT

END OF SEMESTER EXAMINATION

SERIES: DECEMBER 2016

TIME: 2 HOURS

DATE: Pick Date Dec 2016

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of ${\bf FIVE}$ questions. Answer question ONE (Compulsory) and any other TWO questions.

Do not write on the question paper.

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Question ONE

a)	Define the following terms:				
	(i)	Quality	(2 marks)		
	(ii)	Quantity	(2 marks)		
	(iii)	Precision	(2marks)		
b)	State the following:				
	(i)	FIVE reasons why analytical results are sometimes wrong	(5 marks)		
	(ii)	FOUR classifications of wastes	(4 marks)		
	(iii)	TWO types of quality control	(2 marks)		
c)	Outlin	e FOUR applications of reference materials.	(4 marks)		

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d)	Distinguish between warning and control limits in quality control charts (4 mark					
e)	Explain the goal of quality planning. (4 m					
f)	Write t	he acronym, 'GMPs' in full.	(1 mark)			
Question TWO						
a)	Explain the following:					
	(i)	The risks associated with poor sampling	(7 marks)			
	(ii)	The importance of a waste material	(3 marks)			
b)	Outline	e FIVE uses of quality control charts	(10 marks)			
Question THREE						
a)	Outline	e the sequential steps involved in the process of quality in design	. (8 marks)			
b)	Explain the meaning of the following:					
	(i)	The term, 'collaborative study'.	(8 marks)			
	(ii)	The circumstances that may lead to simple random sampling	(4 marks)			
Question FOUR						
Outline any FIVE advantages of the following:						
a)	Waste	recycling	(10 marks)			
b)	Waste	incineration compared to other waste disposal options	(10 marks			
Question FIVE						
Discus	ss the ma	ain features of the following quality management systems:				
a)	ISO 90	01:2008 certification	(4 marks)			
b)	ISO/IEC 17025:2005 accreditation (8 marks)					
c)	GLP compliance (8 marks)					