

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

SUPPLEMENTARY/SPECIAL 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.

Question ONE

(a). Define the following terms:	
(i). Composting	(2 marks)
(ii). Record	(2 marks)
(iii). Hazardous household wastes	(2 marks)
(b). Write the acronyms in full:	
(i) ISO	(1 mark)
(ii). RM	(1 mark)
(ii). GLP	(1 mark)

(c). (i). State	the quality standards applicable for the following:		
I.	Quality management systems and its requirements	(1 marks)	
II.	General requirements for the competence of testing and calibration laborate	atories (1 marks)	
III.	The performance of a study that ensures the production of reliable results	(1 marks)	
(ii). Stat marks)	e FIVE types of control samples used for quality assurance during internal l	aboratory control (5	
(d). Outline	the following:		
(i). THR	EE values of quality planning	(3 marks)	
(ii). FOU	R practical applications of Certified Reference Materials	(4 marks)	
(e). Explain	the role of Good Manufacturing Practices in achieving reliable quality produ	act (6 marks)	
Question T	wo		
(a). State the	FOUR uses of records in the laboratory	(4 marks)	
(b). Compare	e and contrast collaborative study with proficiency testing schemes	(8 marks)	
(c). Distingu	ish between internal quality control and external quality control	(8 marks)	
Question Tl	HREE		
(a). Explain	the meaning of special wastes	(2 marks)	
(b). Discuss	THREE sources of hazardous household wastes and give FOUR appropriate	e examples of each (18 marks)	
Question FO	DUR		
(a). Distingu	ish between the terms, 'certification' and 'accreditation'	(8 marks)	
(b). State FC	OUR types of sampling	(4 marks)	
` /	the materials' information that must be provided to the procurement department in order to ensure quality in the purchasing process	nent by the quality (6 marks)	
(d). Define the	he term, 'sub-sample'	(2 marks)	
Question FI	VE		
(a). Explain	the following:		
(i). The s	shortcomings of a Shewhart chart	(4 marks)	
(ii). The	advantages of the moving average chart	(6 marks)	
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(i). Quality management system (QMS) (2 marks)

(ii). Quality control (QC) (2 marks)

(iii). Quality assurance (QA) (2 marks)

(c). State the FOUR most important parameters of control used to demonstrate the adequacy of the investigated method (4 marks)