



MASINDE MULIRO UNIVERSITY OFSCIENCE AND TECHNOLOGY (MMUST)

UNIVERSITY EXAMINATIONS 2021/2022 ACADEMIC YEAR SECOND YEAR SEMESTER II MAIN EXAMINATION

FOR THE DEGREE OF BACHELOR OF SCIENCE IN INDUSTRIAL CHEMISTRY

COURSE CODE:

SCI 265

COURSE TITLE:

Total Quality Management (TQM) in Manufacturing Industry

DATE:

FRIDAY, 29TH APRIL 2022

TIME: 3.00PM - 5.00PM

INSTRUCTIONS TO CANDIDATES

Answer all the Questions.

Candidates are encouraged to provide equations, relevant examples or illustrations (where necessary) for clarity of their answers.

MMUST observes ZERO tolerance to examination cheating
This Paper Consists of 3 Printed Pages. Please Turn Over.

Question 1 (1					
(a)	Expla	in the difference between QC and TQM. Which is superior?	[5]		
(b))				
	(i) The customer is central to the implementation of a quality system in organizations.				
	E	xplain what you understand by term 'customer'.	[2]		
	(ii) I	Differentiate between an internal customer and external customer.	[2]		
	(iii) I	List five (5) key customers of Masinde Muliro University of Science and			
	Te	echnology as an organization.	[5]		
(c)	Illusti	ratively, explain the term 'product' in TQM.	[2]		
(d)	Qualit	y implementation takes place at two key levels. Which are these two levels?	[2]		
Question 2 (16 M			Marks)		
(a) What are the key responsibilities of a Quality Assurance Officer in an organization? [6]					
(b) If you are a Quality Assurance Officer (QA), what objectives will you set in the company					
	you a	re working in to ensure quality adherence.	[7]		
(c)	(c) For a successful GMP implementation in a company, what are the irreducible minimums?				
			[3]		
Question 3 (18 Ma					
(a) Quality management has evolved with landmark developments owing to contributions of					
	quality Gurus. Discuss the concepts of Philip Crosby, Sir. Edwards Deming and Joseph M.				
	Juran	on:			
	(i)	Definition of quality	[3]		
	(ii)	Degree of senior management responsibility	[3]		
	(iii)	Quality Performance Standard and	[3]		
	(iv)	General Approach to Quality Implementation	[3]		
(b`		in what and how PDCA concept is applied in organizations.	[6]		

Question 4 (18 Marks)

(a)	What is a SOP? Give three (3) relevant examples of SOPs	[5]
(b)	Develop a SOP on delivery of manufactured medicines to suppliers of your	
	company called DAWA Chemicals.	[6]
(c)	Explain seven (7) quality management principles on which the ISO 9001:203	15
	standard is based on.	[7]