

FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT SSA EXAMINATION 2014

DEPARTMENT

QUALITY & OPERATIONS MANAGEMENT

MODULE

QUALITY ASSURANCE 2A

CODE

OQA2A01

DATE

14 July 2014

DURATION

2 HOURS

TIME

08H00

TOTAL MARKS

100

EXAMINER

MRS N SUKDEO

INTERNAL MODERATOR

MRS C MUGOVA

NUMBER OF PAGES

2 PAGES (including cover page)

INSTRUCTIONS TO CANDIDATES:

- This is a closed book assessment.
- Read the questions carefully and answer only what is asked.
- Number your answers clearly.
- · Write neatly and legibly.
- Structure your answers by using appropriate headings and sub-headings.
- The general University of Johannesburg policies, procedures and rules pertaining to written assessments apply to this assessment.

QUESTION ONE

1.1	Explain Crosby's Absolutes of Quality Management.	(5)
1.2	Contrast between Malcolm Baldrige Framework, ISO 9001 and Six Sigma.	(6)
1.3	Discuss ISO 9001 Quality Management principles.	(8)
1.4	Identify and explain product quality dimensions with a product of your choice.	(8)
QUES	STION TWO	[27]
2.1	Discuss the four principle activities of Design for Six Sigma (DFSS).	(8)
2.2	Determine the major steps for Concept Engineering.	(5)
2.3	What is Poka Yoke?	(1)
2.4	Identify and explain the types of service errors in Poka Yoke.	(6)
2.5	For followers to have power, leadership must share power. Identify and discuss different forms of leadership	the (10) [30]
QUESTION THREE		
3.1	Discuss the Six Sigma DMAIC methodology.	(10)
3.2	Determine the sources of competitive advantage.	(6)
3.3	Explain the elements of superior service quality.	(6)
3.4	What are the differences between manufacturing and services?	(5) [27]
QUESTION FOUR		
4.1	Define the following:	
4.1.1 4.1.2 4.1.3 4.1.4 4.1.5 4.1.6	Customer engagement Concurrent engineering Value analysis Experimental design Variety Superordinate goals	(1) (1) (1) (1) (1) (1)
4.2	Discuss the goals of strategic planning.	(4)
4.3	Explain the practices for dealing with customers.	(6) [16]

TOTAL = 100 MARKS