

Faculty of Management Sciences

Department of Management

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QUALIFICATION: BACHELOR OF BUSINESS MANAGEMENT	
QUALIFICATION CODE: 07BBMA	LEVEL: 7
COURSE: QUALITY MANAGEMENT SYSTEMS	COURSE CODE: BQM612S
SESSION: JANUARY 2019	PAPER: THEORY
DURATION: 3 HOURS	MARKS: 100

2nd OPPORTUNITY EXAMINATION – JANUARY 2019

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THIS EXAMINATION PAPER CONSISTS OF 5 PAGES (INCLUDING THIS FRONT PAGE)

INSTRUCTIONS

1.	Answer all questions.
2.	Read all the questions carefully before answering.
3.	Marks are indicated at the end of each question/section.
4.	Please ensure that your writing is legible, neat and presentable.

SECTION A – Multiple Choice Questions (2x10 marks)

- 1. What is a process? Choose the correct answer.
 - a) It's a sequence of activities that are intended to achieve some results
 - b) A procedure to follow
 - c) A set of rules
 - d) A routine operation
 - e) None of the above
- 2 "six sigma" is a;
 - a) system that measures the productivity and performance of employees
 - b) defect- or error-based metric that equates to zero defects or errors per million opportunities
 - c) defect- or error-based metric that equates to 3.4 or fewer defects or errors per million opportunities
 - d) system without measures
 - e) None of the above
- 3 Key Performance Measures in Services are about;
 - a) Accuracy, Cycle time, Cost, Customer satisfaction
 - b) Accuracy, Down time, Cost, Customer satisfaction
 - c)Accuracy, Up time, Cost, Customer satisfaction
 - d) Accuracy, Down time, Cost, Customer satisfaction
 - e) Accuracy, Down time, Cost, Training
- 4 Nonconformance (defect or error) is;
 - a) Countable
 - b) Concerned with the degree of conformance of specifications
 - c)Difficult for employees to trace
 - d) any mistake or error that is passed on to a customer
 - e) All of the above

5 A Project is;

- a) a temporary work structure that starts up, produces some output or outcome, and then shuts down.
- b) not a temporary work structure that starts up, produces some output or outcome, and then shuts down.
- c) an operation that is carried out daily and does not produces some output or outcome, and then shuts down.
- d) about analyzing the production process
- e) a temporary work structure that starts up, produces some output or outcome, and then train employees.

6 SMART is the abbreviation for;

- a) Smooth, Measurable, Actionable, Related, Timely
- b) Simple, Meaningful, Actionable, Related, Timely
- c) Simple, Measurable, Actionable, Reasonable, Timely
- d) Simple, Measurable, Actionable, Reasonable, Timeless
- e) Simple, Measurable, Actionable, Related, Timely

7 DMAIC is an abbreviation for?

- a) Define, Measure, Analyse, Improve, Control
- b) Define, Map, Analyse, Improve, Control
- c) Define, Measure, Act, Improve, Control
- d) Define, Measure, Analyse, Import, Control
- e) Define, Measure, Analyse, Improve, Correct

8 A learning cycle constitutes of the following?

- a) Planning, Execution of plans, Assessment of progress, Revision of plans based on the assessment findings
- b) Planning, Design, Assessment of progress, Revision of plans based on the assessment findings
- c) Planning, Execution of plans, Monitoring, Revision of plans based on the assessment findings
- d) Planning, Execution of plans, Assessment of progress, Revision of plans based on management decision
- e) Planning, Execution of plans, Revise budget, Revision of plans based on the assessment findings

9 Accuracy is;

- a) the difference between the true value and the observed average of a measurement
- b) the closeness of repeated measurements to each other
- c) the measurement where there are no variations
- d) the right products delivered from the factory
- e) All of the above

10 Calibration is the process of;

- a) increasing the defects of an item of measuring and test equipment compared to traceable measurement standards.
- b) ignoring the capability and performance of an item of measuring and test equipment compared to traceable measurement standards.
- c) verifying buying new measuring and test equipment
- d) verifying the capability and performance of an item of measuring and test equipment compared to traceable measurement standards.
- e) all the above

SECTION B – Essay Type Questions (80 marks)

- 1 What are the categories of critical-to-quality (CTQ) characteristics for? (15 MARKS)
 - a. manufactured goods/products
 - b. Five key dimensions of service quality that contribute to customer perceptions? Please describe them.
 - c. Japanese Professor, Noriaki Kano classified them into three categories. Name and describe them.
- 2 Explain the importance of projects and project management in Six Sigma especially as it relates to initial training of Six Sigma experts. (10 MARKS)
- 3 What are the characteristics of the different individuals who make up Six Sigma teams? (10 MARKS)
- 4 Explain the five stages of the project life cycle. (10 MARKS)
- 5 What factors should be considered when selecting Six Sigma projects? (5 MARKS)
- 6 What is a SIPOC diagram? How is it used in the SIX Sigma define stage? (8 MARKS)
- 7 What is a process map (or flow chart) and what benefits do they provide to project team members and decision –makers? (8 MARKS)
- 8 What are the basic questions organizations must ask in order to collect accurate data? (4 MARKS)
- 9 Describe different types of check sheets that are useful in quality improvement. (6 MARKS)
- 10 Discuss the basic questions that must be addressed in a sampling study. (4 MARKS)

END OF EXAM