**SCII/00825/2019**

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**SYSTEM DESIGN AND IMPLEMENTATION**

**ASSIGNMENT**

## 1. Define software quality assurance (SQA)

Software quality assurance is a means and practice of monitoring the software engineering processes and methods used in a project to ensure proper quality of the software. It may include ensuring conformance to standards or models, such as ISO/IEC 9126, SPICE or CMMI

## 2. Describe what is involved in SQA

SQA encompasses the entire software development process, including requirements engineering, software design, coding, code reviews, source code control, software configuration management, testing, release management and software integration.

## 3. Explain SQA attributes

Correctness
Reliability
Adequacy
Learnability
Robustness
Maintainability
Readability
Extensibility
Testability
Efficiency
Portability

## 4. Describe SQA techniques

Purpose section

Reference section

Software configuration management section

Problem reporting and corrective action section

Tools, technologies and methodologies section

Code control section

Records: Collection, maintenance and retention section

Testing methodology

## 5. Explain the SQA standards

ISO 9001 is an internationally recognized quality management system standard, which is a global benchmark for quality management systems. ISO 9001 establishes requirements and recommendations for the design and assessment of a quality management system.