

**Started on** Thursday, 8 February 2024, 12:01 PM**State** Finished**Completed on** Thursday, 8 February 2024, 12:34 PM**Time taken** 32 mins 25 secs**Question 1**

Complete

Marked out of 1

The services of software maintenance fall into the following categories:

Select one:

- ☐ a. Corrective maintenance
- ☒ b. All of the above
- ☐ c. Adaptive maintenance
- ☐ d. Functionality improvement maintenance

**Question 2**

Complete

Marked out of 1

The factors included in McCall's factor model are grouped into categories namely:

Select one:

- ☒ a. Operation,Revision,Transition
- ☐ b. Operation,Revision,Transition,Testability
- ☐ c. Correctness, Reliability, Efficiency
- ☐ d. Operation,Revision,Reusability

**Question 3**

Complete

Marked out of 1

Opportunities to detect software defects arise in :

- ☐ a. Elicitation
- ☒ b. Product development
- ☐ c. Manufacturing
- ☐ d. Product production planning

**Question 4**

Complete

Marked out of 1

Example of flexibility requirements is

Select one:

- ☐ a. All of the above
- ☒ b. None of the above
- ☐ c. Processing power (MIPS, MHz)
- ☐ d. Storage capacity (GBytes, TBytes)

**Question 5**

Complete

Marked out of 1

a software function size will not exceed 60 statements. This requirement is an example of:

Select one:

- ☐ a. Correctness requirement
- ☒ b. Maintainability requirement
- ☐ c. Flexibility requirement
- ☐ d. Usability requirement

**Question 6**

Complete

Marked out of 1

The software engineering activity that comes with an agreement between customers and engineers about the functions of the software to be developed and the constraints on its operation is:

- ☐ a. Software Specification
- ☒ b. Software Testing
- ☐ c. Software Evolution
- ☐ d. Software Development

**Question 7**

Complete

Marked out of 1

SQA actions are for software development armatures

Select one:

- ☐ True
- ☒ False

**Question 8**

Complete

Marked out of 1

Shortcomings of the testing process affects the error rate

Select one:

- ☐ True
- ☒ False

**Question 9**

Complete

Marked out of 1

You should applied the SQA actions in your graduation project.

Select one:

- ☐ True
- ☒ False

**Question 10**

Complete

Marked out of 1

The root of any software failure is

Select one:

- ☐ a. Software testing
- ☒ b. none of the above
- ☐ c. Software fault
- ☐ d. Software defect

**Question 11**

Complete

Marked out of 1

The process activities are used as process phases on existing components in :

- ☒ a. Reuse-oriented software engineering
- ☐ b. All the above
- ☐ c. Incremental Development Model
- ☐ d. Waterfall Model

**Question 12**

Complete

Marked out of 1

\_\_\_ can be defined as "Conformance to explicitly stated functional and performance requirements, explicitly documented development standards, and implicit characteristics that are expected of all professionally developed software"

Select one:

- ☐ a. In IEEE, Software quality
- ☐ b. Software quality
- ☐ c. Software quality assurance
- ☒ d. Quality control

**Question 13**

Complete

Marked out of 1

Quality assurance activities are only a part of the total range of quality control activities.

Select one:

- ☐ True
- ☒ False

**Question 14**

Complete

Marked out of 1

The most important elements for achieving software quality is the definition of quality requirements

Select one:

- ☐ True
- ☒ False

**Question 15**

Complete

Marked out of 1

Assuring that the software will meets the functional and quality requirements is one of quality control activities objectives

Select one:

- ☐ True
- ☒ False

**Question 16**

Complete

Marked out of 1

\_\_\_\_\_ can be defined as a systematic, planned set of actions necessary to provide adequate confidence that the software development process or the maintenance process of a software system product conforms to established functional technical requirements as well as with the managerial requirements of keeping the schedule and operating within the budgetary limits

Select one:

- ☐ a. Functional requirments
- ☐ b. Quality control
- ☐ c. Software quality
- ☒ d. None of the above

**Question 17**

Complete

Marked out of 1

DR committee results include

Select one:

- ☐ a. Immediate approval
- ☐ b. Approval
- ☐ c. An additional DR is required
- ☒ d. All of the above

**Question 18**

Complete

Marked out of 1

Direct objective of the functionality improvement maintenance is the detection of software faults and other failures

Select one:

- ☒ True
- ☐ False

**Question 19**

Complete

Marked out of 1

The software engineering activity that comes with the software design is:

- ☒ a. Software Testing
- ☐ b. Software Development
- ☐ c. Software Specification
- ☐ d. Software Evolution

**Question 20**

Complete

Marked out of 1

Factors affecting defect detection in software products vs. other industrial products

development phase	is the only place where the software's defects can be detected
Visibility of the other industrial products	can't be declared as it is free of defects
Software products	makes it easy to assess its development and quality
Software products	Can be measured by the number of operational modes the product permits
other industrial products	are usually very complex , allowing for very large number of operational options
Product complexity	are much, lower complexity allowing at most a few operational options

**Question 21**

Complete

Marked out of 1

The causes of software errors can be classified as

Select one:

- ☐ a. Deliberate deviations from software requirements
- ☒ b. Coding error
- ☐ c. All of the above
- ☐ d. Logical design errors

**Question 22**

Complete

Marked out of 1

Contract conditions defining the

Select one:

- ☒ a. None
- ☐ b. Development and Quality plan
- ☐ c. The project Budget
- ☐ d. All of the above

**Question 23**

Complete

Marked out of 1

SQA actions should not be limited to the technical aspects of the functional requirements

Select one:

- ☐ True
- ☒ False

**Question 24**

Complete

Marked out of 1

software engineering is a good environment for achieving SQA objectives.

Select one:

- ☐ True
- ☒ False

**Question 25**

Complete

Marked out of 1

The following is an example of testable quality requirement:

The system should be easy to use by teachers and should be organized in such a way that user errors are minimized.

Select one:

- ☐ True
- ☒ False

**Question 26**

Complete

Marked out of 1

"Read and Write" permit is an example of:

Select one:

- ☐ a. Efficiency requirement
- ☐ b. Reliability requirement
- ☐ c. Integrity requirement
- ☒ d. none of the above

**Question 27**

Complete

Marked out of 1

Degree of software complexity compared to other industrial products is:

- ☐ a. Much higher
- ☒ b. Much lower
- ☐ c. no such comparison
- ☐ d. Equal

**Question 28**

Complete

Marked out of 1

Dimensions for correctness factor include

Select one:

- ☐ a. The output mission
- ☐ b. The required accuracy of those outputs
- ☐ c. The completeness of the output information
- ☒ d. All of the above

**Question 29**

Complete

Marked out of 1

Defects in software products can be detected by sight

Select one:

- ☐ True
- ☒ False



**Question 30**

Complete

Marked out of 1

The environment for which SQA methods are developed

The contract between the software developer and the customer define:

Software development professionals

SQA methods are developed for :

interfaces

The project team has to cooperate continuously with the customer to:

consider customer's request for changes

most software systems communicate with other software packages via

List of requirements needed to be fulfill, project budget and timetable