

CS-605 Software Engineering II Update MCQS For Quiz-4 File Solve By Vu Topper RM

85% To 100% Marks



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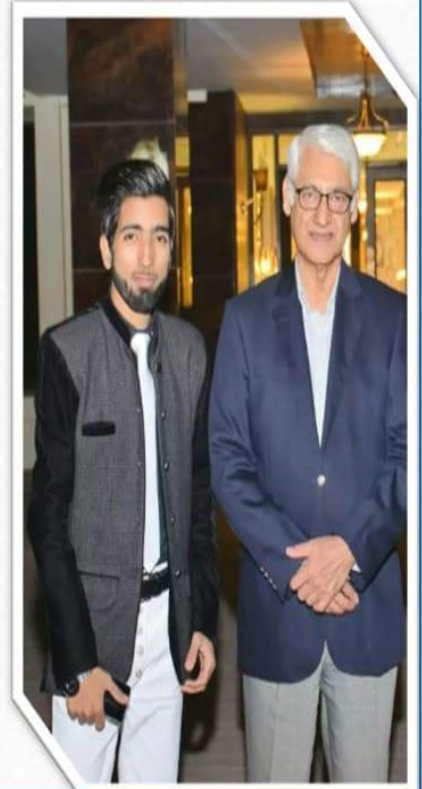
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_____ enhances the product feature set by replacing a product with a newer version of the same product.

Update

Upgrade

Deployment

Re-Engineering

The Review participants SHOULD NOT be focused on _____.

Time lines

Work product

Review agenda

Weaknesses of the developer

Mean Time Between Failure (MTBF) can be calculated by _____.

$MTBF = MTTF - MTTR$

$MTBF = MTTF + MTTR$

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$MTBF = (MTTR / MTTF) * 100$

$MTBF = (MTTF / MTTR) * 100$

In a review the _____ should be pointed out gently and the tone should be loose and constructive.

Errors

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Inputs

Outputs

Conditions

'CCB' decides whether to allow or deny a change request, it stands for _____.

Change Combine Board

Change Control Board

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Challenge Control Board

Challenge Combine Board

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Poka Yoke is a Japanese term and it means:

Risk Navigation

Status Reporting

Mistake Proofing

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Resource Planning

Which of the following is NOT one of the tasks included in Software Configuration Management:

Version Control

Change Control

Test Case development

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Configuration Auditing

The goal of software development is to develop _____ software on time and on budget, that meets customers' real needs.

Quality

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Standard

Expensive

Functional

_____ are mechanisms that lead to prevention of potential quality problem before it occurs or its rapid detection if introduced.

Mistake-Provoking

Mistake-Profiling

Mistake-Proofing

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Mismanagement-Proofing

The information items defined by Engineering Change Order (ECO) include:

The project Task network.

Work breakdown structure.

The change control test case.

Criteria for review and audit.

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It is noted that a/an _____ review can be worse than no review at all.

Normal

Controlled

Uncontrolled

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Intermediate

The purpose of Software Configuration Management is to establish and maintain the _____ of software products through the project's life cycle.

Integrity

Google

Portability

Efficiency

Interoperability

The basis principle for a review is that the focus should be on the _____.

Profit to be gained

Presentation Slides

Producer and not the Product

Product and not the Producer

_____ is a quality assurance process used to reduce defects by avoiding or correcting mistakes in early design and development phases.

Poka-Yoke

Defect Removal

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Software Testing

Software Change management

MTTF is the abbreviation of _____.

Mean time to failure

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Mean time to forward

Median

time to failure

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Moderate time to failure

The second digit (i.e. "Y") of the release version number format is called:

Defect Repair Number

Major Release Number

Factor Removal Number

Feature Release Number

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The basic idea behind Software configuration management is:

To provide portability

To efficiently allocate the resources

To properly manage status reporting

To manage and control the change

The equation to find out the Availability of software is:

Availability = $(MTTF - MTBF) \times 100$

Availability = $(MTTF \times MTBF) / 100$

Availability = $(MTTF + MTBF) \times 100$

Availability = $(MTTF / MTBF) \times 100$

_____ a statistical technique is used to develop an overall indication of improvement in software quality.

Error Index

Cost of Quality

Pareto Principle

Quality Assurance

Instead of going through the entire design in a meeting we narrow down the focus by conducting _____ for each component, or small group of components.

Testing

Debugging

Reusability

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Poka Yoke is the name of a _____.

Idiom

Game

Japanese dish

Quality Assurance(QA) technique

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Which of the following is not one of the responsibilities of Configuration Audit team?

To verify that all related SCI's been properly updated.

To verify that SE standards have been properly applied.

To verify that a FTR has been conducted to assess technical correctness.

To verify that all the change requests are deleted after implementation.

If the version of a release changes from 1.0.0 to 2.0.0, what will you conclude about new release (having version 2.0.0)

There was no change in functionality

There was partial change in functionality

There was major change in functionality

Bugs in previous functionanlity were removed

_____ is the probability that a program is operating according to requirements at a given point in time.

Security

Usability

Reliability

Availability

_____ serve as the starting point for further development and by helping us to control change without seriously impeding justifiable change.

Baseline

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Full Version
Change Control
Mistake-Proofing

Normally the compound number, used for release version numbering, is of the format:

X.Y.Z

X,Y,Z

X/Y/Z

X-Y-Z

Which of the following the NOT one of the attributes of requirements.

Created By

Received By

Creation Date

Requirement ID

_____ is an analysis technique which can be used to predict the chain of events that can cause hazards.

Fault Free Analysis

Fault Tree Analysis

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Failure Free Analysis

Fault Decision Analysis

The reliability of a software can be determined by "MTBF" which stands for _____.

Mean Time Beyond Failure

Mean Time Between Failure

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Maximum Time Between Fault

Maximum Time Between Failure

Which of the following is/are example(s) of Software Configuration Item (SCI):

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- A. Business Plan
- B. Test Case and Integration Plan**
- C. Requirements plan
- D. Reusability

If _____ is not handled properly may create certain problems like identification and tracking, version selection and software delivery related problems.

- A. Process Improvement
- B. Change Chaos**
- C. Process Management
- D. Change documentation

An Engineering Change Order (ECO) defines the change to be made, its constraints and _____.

The project Task network.

Work breakdown structure.

The change control test case.

Criteria for review and audit.

Version Control discusses about:

- A. How many features will be included in a software.
- B. How the test cases will be executed before deploying each release.
- C. How the resources will be assigned to tasks in work breakdown structure (WBS).

D. How does an organization control changes before and after installation released to a customer.

_____ is defined as the probability of failure free operation of a computer program in a specified environment for a specified time.

Software Integrity

Software Usability

Software Reliability

Google

Software

Efficiency

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_____ states that 80% of the defects can be traced to 20% of its causes.

Kraul Principle

Pareto Principle **Google**

D.Steeter Principle

Fred Brooks Principle

The two objectives of a _____ are to identify problem areas within the work product and a checklist of action items.

Testing

Review Issue List

Formal Technical Reviews

Informal Technical Reviews

Which of the following is NOT one of the possible values of "Status" attribute of requirements.

Verified

Approved

Received

Proposed

According to Clemm, _____ allows the user to specify alternative forms of the software system through the selection of appropriate versions.

Cost Management

Quality Management

Process Management

Configuration Management

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Following are effective guidelines for Review EXCEPT

Be sensitive to personal egos

Tone should be high and strict

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Errors should be pointed out gently
We need to review the product not the producer

Schedule Performance Index (SPI) is equal to
 $BCWP \div BCWS$

BCWP / BCWS

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$BCWP - BCWS$

$BCWP + BCWS$

Milestone represents:

A predictable risk that may hit the project

An unpredictable risk that may hit the project

The defined target which you need to achieve

The Loss that organization may suffer due to risk

A model where Some errors are passed through to the next step
undetected such errors are said to have been _____ .

Reduced

Amplified

Multiplexed

Neutralised

Once the higher management has devised the mitigate strategy, the
project must be monitored for this -----.

A. Particular Requirement

B. Particular risk

C. Particular task

D. Particular schedule

CPM is a technique which helps us in preparing a schedule for the
project, it stands for:

A. Critical Project Measure

B. Critical Planning Model

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C. Common Project Measure

D. Critical Path Method

_____ define a set of development criteria for engineering a high quality software product.

Project Managers

Specified Standards

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Functional Requirements

Non-Functional Requirements

_____ are sometimes also known as walkthroughs or Inspections.

Testing

Debugging

Formal Technical reviews

Informal Technical reviews

_____ provides the management with the necessary data to be informed about product quality through auditing and reporting functions.

Software Testing

Quality Assurance

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Project Management

Requirements Specifications

E = Errors found before shipment

D = Errors found during operation

Then Defect Removal Efficiency (DRE) is equal to:

$$\text{DRE} = E / (E+D)$$

$$\text{DRE} = E * (E+D)$$

$$\text{DRE} = E - (E+D)$$

$$\text{DRE} = E + (E+D)$$

Every project has a defined number of staff members. As time allocation occurs, the _____ project

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manager must ensure that no more than the allocated number of -----
--- have been scheduled at any given time.

Task

Days

People

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Components

BCWS is a term used in Earned Value Analysis it stands for_____.

None of the given options

Beginning Cost of Whole System

Budgeted Cost of Whole System

Budgeted Cost of Work Schedule

Page 102

Let the value of Task Set Selector (TSS) for a new project is computed
to be less than 1.2 ($TSS < 1.2$) then its degree of rigor will be

_____.

Strict

Casual

Structured

Quick Reaction

_____ identifies the degree of uncertainty that the product will
meet its requirements and be fit for its intended use.

Cost risks

Support risks

Schedule risks

Performance risks

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The _____ is the amount of surplus time allowed in scheduling tasks
so that the network critical path is maintained on schedule.

Total Float

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Negative Float

Minimum Float

Maximum

Float

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If an error related to requirements is identified in testing phase, this error will be considered as an error of _____ phase.

Code

Design

Testing

Requirement

_____ is one of the techniques used during severe deadline pressure.

CPM

PERT

Time Boxing

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Macroscopic scheduling

FTR is a quality control activity performed by software engineers, it stands for:

Formal Technical Review

Formatted Technical Review

Fetched Technical Requirement

Feasibility of Technical Requirement

In order to use the PERT and CPM, which one of the followings is NOT required?

Estimation of effort.

Interdependencies.

Teams communication mode details.

Decomposition of tasks – also known as the work breakdown structure (WBS).

Formula for the Risk Exposure (RE) is given by _____.

A. $RE = \text{Probability of the risk} * \text{Cost}$

B. $RE = (\text{Probability of the risk} + \text{Cost}) / 2$

C. $RE = \text{Probability of the risk} / \text{Cost}$

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D. $RE = \text{Probability of the risk} + \text{Cost}$

Gathered data of, Ereq, Edesign, and Ecode in current project and comparison with historical data will guide development team to _____.

- A. Destroy the current product
- B. End the project without any reason
- C. Plan past activities
- D. Plan future activities**

In context of degree of rigor, TSS stands for:

- A. Tasks set in schedule
- B. Task set selector
- C. Time set in schedule**
- D. Time set selector

For a project, if value of TSS is 0.9, then the degree of rigor for this project will be:

- A. Structured
- B. Strict**
- C. Strict or Structured
- D. Casual

BCWP refers to:

Normalized value of budgeted cost

Budgeted cost of work performed so far

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Overall expected cost of the project (anticipated cost)

Overall cost of the project (calculated after completion of project)

Earned Value Analysis (EVA) is a _____ technique for assessing the progress of a project.

- Subjective
- Qualitative
- Descriptive

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_____, project risks, and technical risks are the three main types of risks that are faced by almost every project.

Sales risks

Global risks

Semantic risks

Business risks

Quality cost may be divided into costs associated with:

Bugs, errors and Reports

Builds, releases and products

Prevention, appraisal and failure

Customers, developers and maintenance

Cost of quality increases as we go from _____ .

Detection to Prevention to Failure.

Failure to Prevention to Detection.

Prevention to Detection to Failure.

Detection to Failure to Prevention.

_____ is one of the techniques to prepare project schedule once we have defined "task network"

System resource negotiation method (SRNM)

Critical Communication path method (CCPM)

Program evaluation and review techniques (PERT)

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Strategic Schedule Development technique (SSDT)

SQA is an umbrella activity in which following activities are performed EXCEPT

Review

Testing

Inspection

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Project

Planning

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_____ can be uncovered after careful evaluation and analysis
whereas _____ cannot be identified.

Predictable risks, Unpredictable risks

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Unpredictable risks, Business risks

Unpredictable risks, Predictable risks

Only ----- of the software components scheduled for
reuse will, in fact, be ----- into the application. The remaining
functionality will have to be custom developed.

90%, integrated

80%, excluded

70%, integrated

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100%, integrated

A process model defines a task set which comprises of SE work tasks,
milestones and _____.

Design

Coding

Deliverables

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Work Breakdown Structure

_____ reviews the process description for compliance with the
organisational policies, standards and other parts of the software project
plan.

Cost of Quality

Quality planning

Quality Control

Software Quality Assurance (SQA) group

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_____ help the development team in improving the defect removal
efficiency and hence results in a high-quality software product.

Design

Planning

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Reviews

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Architecture

The progress on a project at any given point in time can be calculated by:

Dividing all the BCWS till that point for all tasks

Adding all the BCWS till that point for all tasks

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Adding BCWS and EVA for all tasks till that point

Multiplying all the BCWS till that point for all tasks

_____ involves rework, repair, and failure mode analysis of the product.

Prevention Cost

Appraisal Cost

Internal Failure Cost

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External Failure Cost

BAC stands for:

Budget And Cost

Budget at compilation

Budget at Completion

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Budgeted Analysis Cost

Error-free designed software requirements but wrongly gathered by requirement engineers will return _____.

A. Desired product

B. Unwelcome product

C. Accurate product

D. Absolutely correct product

Software quality assurance is achieved at the later stages like integration and acceptance with the help of _____.

A.

Testing

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- B. Formal Technical Reviews
- C. Debugging
- D. Informal Technical Reviews

Formulae for total number of Channels of communication involving N people is given by:

- A. $C = N(N+1) * 2$
- B. $C = N(N+1)$
- C. $C = N(N-1)$
- D. $C = N(N-1)/2$**

Defining a “Task Network” helps in defining:

- A. Cost of the project
- B. Third party tools required for project
- C. The resources required for project
- D. Sequence in which activities will be performed**

_____ is concerned about dealing with the resultant software and ensuring that it will be easy to correct, enhance, and adapt.

- A. Support risks**
- B. Cost risks
- C. Performance risks
- D. Schedule risks

Certain reusable software components were to be developed by a/an ----- having no knowledge of its internal design standards.

- A. Quality Assurance Team
- B. 3rd party**
- C. 2nd party
- D. In-house

A requirement related defect detected in any phase (design, source code testing) will be called _____.

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- A. Design related defect
- B. Zero level defect
- C. Requirement defect**
- D. Source code defect

Software quality assurance is achieved at the initial stages like requirements, architecture and design stages with the help of

- A. Cost of the project
- B. Third party tools required for project
- C. Sequence in which activities will be performed**
- D. The resources required for project

- A. Semi-Structured
- B. Structured
- C. Strict**
- D. Casual

- A. Zero bugs exist in application
- B. 80% bugs still exist in application
- C. 20% bugs still exist in application**
- D. 50% bugs removed from application

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Decomposed

Allocate good and extra resources at coding level to review these components thoroughly

D. A single task that determines the duration of the project.

D. Performing the risk analysis again

B. Risks appeared in task i

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C. Effort (person-days etc) for task i

D. Faults appeared in task i

_____ tries to ask and answer questions related to Product size, Business impact, Process definition, Staff size, experience, etc. for each software project.

A. Risk Prevention

B. Risk item checklist

C. Informal reviews

D. Formal reviews

C# language is very similar to:

Java

Prolog

Delphi

C-Language

In C#, Managed code is executed under the control of:

Debugger

Assembler

Disassembler

Comon Language Runtime (CLR)

For event driven mechanism in C#, we use _____ just like _____ in C++.

Delegates , Function pointer

Object-oriented programming in C# is supported through:

Classes

In C#, which of the following is used to give information to .Net compiler that a class is compliant with Common Language Specifications (CLS)?

Class

attribute

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Numeric value, integer value

In the context of C#, which of the following is not true about delegates?

Delegates are value type

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Operator overloading

Out

A variable in _____ cannot be used unless and until it is not initialized.

C#

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Boolean

The concept of C# jagged array is similar in function to Java Array of Arrays

Restricted use of pointers is permitted in C# within the code marked as:

Safe

Void

Static

Unsafe

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