

CS605-Software Engeinring-II

Solved MCQS for QUIZ-2

Solved by JUNAID MALIK



AL-Junaid Institute

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LMS Handling

Subject Enrollment

- 1) *Online classes available*
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Website Link

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Final project CS619

- 1) *SRS*
(Software Requirement's
Specification)
- 2) *DD*
(Design Document)
- 3) *Test phase + viva*
- 4) *Viva preparation*
- 5) *Final Deliverable*

Gmail

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Question No: 1

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

• ► **Software Reliability** AL-JUNAID TECH INSTITUTE

- ► Software Usability
- ► Software Integrity
- ► Software Efficiency

Question No: 2

Schedule Performance Index SPI) is equal to

• ► **BCWP / BCWS** AL-JUNAID TECH INSTITUTE

- ► $BCWP * BCWS$
- ► $BCWP + BCWS$
- ► $BCWP - BCWS$

Question No: 3

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

• ► **Review Issue List** AL-JUNAID TECH INSTITUTE

- ► Formal Technical Reviews
- ► Informal Technical Reviews
- ► Testing

Question No: 4

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

• ► **Uncontrolled** AL-JUNAID TECH INSTITUTE

- ► Controlled
- ► Intermediate

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- ► Normal

Question No: 5

The Review participants SHOULD NOT be focused on _____.

- ► **Weaknesses of the developer**
- ► Time Lines
- ► Review agenda
- ► Work product

Question No: 6

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

- ► **Adding all the BCWS till that point for all tasks**
- ► Multiplying all the BCWS till That point for all task
- ► Adding BCWS and EVA for all task still that point
- ► Dividing all the BCWS till That point for al tasks

Question No: 7

Milestone represents:

- ► **The defined target which you need to achieve**
- ► A predictable risk that may hit the project
- ► An unpredictable risk that may project
- ► The Loss that organization may suffer due to risk

Question No: 8

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

- ► **Requirement** **AL-JUNAID TECH INSTITUTE**
- ► Design
- ► Code

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- ► Testing

Question No: 9

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

- ► Internal Failure Cost AL-JUNAID TECH INSTITUTE

- ► External Failure Cost
- ► Appraisal Cost
- ► Prevention Cost

Question No: 10

If:

E = Errors found before shipment

D = Errors found during operation

Then Defect Removal Efficiency (DRE) is equal to:

- ► $DRE = E / (E+D)$ AL-JUNAID TECH INSTITUTE
- ► $DRE = E * (E+D)$
- ► $DRE = E + (E+D)$
- ► $DRE = E - (E+D)$

Question No: 11

BCWS is term used in Eamed Value Analysis it stands for _____.

- ► Budgeted Cost of Work Schedule
- ► Budgeted Cost of Whole System
- ► Beginning Cost of Whole System
- ► None of the given options

Question No: 12

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

- ► Pareto Principle AL-JUNAID TECH INSTITUTE
- ► Fred Brooks Principle
- ► Kraul Principle
- ► D.Streeter Principle

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Question No: 13

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

- ► **Product and not the producer**
- ► producer and not the Product
- ► Profit to be gained
- ► Presentation Slide

Question No: 14

Many defect identified in few components at design level testing/review, a software development team should _____.

- ► **Allocate good and extra resources at coding level to review these components thoroughly**
- ► Good achievement by designing team
- ► No need to allocated further resources at coding level to review these components
- ► Mission accomplished once good number of error/flaws identified level

Question No: 15

Milestone represents:

- ► **The defined target which you need to achieve**
- ► A predicable risk that may hit the project
- ► A unpredictable risk that may hit the project
- ► The Loss that organization may suffer due to risk

Question No: 16

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

- ► **Error index** **AL-JUNAID TECH INSTITUTE**
- ► Pareto Principle
- ► Quality Assurance
- ► Cost of Quality

Question No: 17

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

- ► **Amplified** AL-JUNAID TECH INSTITUTE
- ► Reduced
- ► Neutralized
- ► Multiplexed

Question No: 18

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

- ► **Quantitative** AL-JUNAID TECH INSTITUTE
- ► Subjective
- ► Qualitative
- ► Descriptive

Question No: 19

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

- ► **Uncontrolled** AL-JUNAID TECH INSTITUTE
- ► Controlled
- ► Intermediate
- ► Normal

Question No: 20

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

- ► **Formal Technical Review** AL-JUNAID TECH INSTITUTE
- ► Formatted Technical Review
- ► Feasibility of Technical Requirement
- ► Fetched Technical Requirement

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Question No: 21

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

- ► **quantitate** AL-JUNAID TECH INSTITUTE
- ► Subjective
- ► Descriptive
- ► Qualitatives

Question No: 22

BCWS for a task i will be equal to:

- Risks appeared in task i
- **Effort (person-days etc) for task i**
- Resource deficiency for task i
- None of the given options

Question No: 23

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

- Review
- Testing
- Project Planning
- **Inspection** AL-JUNAID TECH INSTITUTE

Question No: 24

Schedule Performance Index (SPI) is equal to

- **BCWP / BCWS** AL-JUNAID TECH INSTITUTE
- $BCWP * BCWS$
- $BCWP + BCWS$
- $BCWP - BCWS$

Question No 25

Poka Yoke is the name of a

- **QA technique** AL-JUNAID TECH INSTITUTE
- Japanese dish
- Idiom
- None of the given options

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Question No 26

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

- Program evaluation and review techniques (PERT)
- Critical Communication path method (CCPM)
- System resource negotiation method (SRNM)
- Strategic Schedule Development technique (SSDT)

Question No 27

Quality cost may be divided into costs associated with:

- Prevention, appraisal and failure
- Customers, developers and maintenance
- Builds, releases and products
- Bugs, errors and Reports

Question No 28

The equation to find out the Availability of software is:

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

Question No 29

FTR stands for:

- Feasibility of technical requirement
- Fetched Technical Requirement
- Formal Technical Review **AL-JUNAID TECH INSTITUTE**
- None of the given options

Question No: 30

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

- Qualitative
- Quantitative **AL-JUNAID TECH INSTITUTE**
- Subjective
- None of the given options

Question No: 31

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FTR stands for:

- Feasibility of technical requirement
- Fetched Technical Requirement
- Formal Technical Review
- None

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Question No: 32

Configuration Auditing deals with:

- Ensuring that Resources have been allocated properly.
- Ensuring that changes are implemented parallel with SDLC framework activities.
- Ensuring that the changes have been implemented properly
- All of the given

Question No: 33

Poka-Yoke is the name of a:

- QA technique
- Japanese dish
- Idiom
- None

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Question No: 34

Quality cost may be divided into costs associated with:

- Prevention, appraisal, and failure
- Customers, developers, and maintenance
- Builds, releases, and products
- Bugs, errors, and Reports

Question No: 35

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

- Requirement
- Design
- Code
- Testing

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Question No: 36

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

- Decomposition of tasks-also known as the work breakdown structure (WBS).
- Teams communication mode details.
- Estimation of effort.
- Interdependencies.

Question No: 36

if:

E = Errors found before shipment

D = Errors found during shipment

Then Defect Removal Efficiency (DRE) is equal to:

- $DRE = E + (E+D)$
- $DRE = E - (E+D)$
- $DRE = E * (E+D)$
- $DRE = E / (E+D)$ **AL-JUNAID TECH INSTITUTE**

Question No: 37

Following are effective guidelines for Review EXCEPT:

- We need to review the product, not the producer
- Be sensitive to personal egos
- Errors should be pointed out gently
- The tone should be high and strict

Question No: 38

The basic idea behind Software configuration management is:

- To manage and control the change
- To efficiently allocate the resources
- To properly manage status reporting
- None

Question No: 39

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

- Qualitative
- Quantitative
- Subjective
- None

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Question No: 40

Quality cost may be delivered into costs associated with:

- Prevention, appraisal and failure
- Customers, developers and maintenance
- Builds, releases and products
- Bugs, errors and reports

Question No: 41

A Software Requirement Specification is traced if the ____ of its requirements is clear.

- Quality
- Slandered
- Origin
- None

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Question No: 42

Version Control discusses about:

- How does an organization control changes before and after software is released to a customer
- How the resources will be assigned to tasks in work breakdown structure (WBS)
- How the test cases will be executed before deploying each release.
- All of given

Question No: 43

The implemented requirement has been ____ through the selected approach, such as testing or inspection.

- Verified
- Deleted
- Approved

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- None

Question No: 44

The Software reengineering is a ____ activity.

- Code
- Out dated
- Document
- Non-trivial

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Question No: 45

Which of the following is NOT an example of Software Configuration Item (SCI):

- Test Case
- Integration Plan
- Design specification
- None

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Question No: 46

Mean Time Between Failure (MTBF) can be calculated by:

- $MTBF = MTTF + MTTR$
- $MTBF = MTTF - MTTR$
- $MTBF = (MTTF/MTTR)*100$
- $MTBF = (MTTR/MTTF)*100$

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Question No: 47

____ software development is itself risky as changes to one part of the system inevitably involve further changes to other components.

- Forward
- Reverse
- Old
- New

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Question No: 48

Program is restructured ____ the reverse engineering phase. In this case we modify source code and data in order to make it amenable to future changes.

- After
- None
- Along with
- Before

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Question No: 49

___ Managers look at the system from the angle that does the system and associated business process make an effective contribution to the business goal?

- Senior **AL-JUNAID TECH INSTITUTE**
- IT
- None
- Line

Question No: 50

___ user assess the system from the perspective of how effective do they find the system in supporting their business processes and how much of the system functionality is used.

- Senior
- IT
- Line
- End **AL-JUNAID TECH INSTITUTE**

Question No: 51

A system is considered to be a legacy system if it has been in operation for ___ years. A legacy system has many components.

- Less than seven
- Many **AL-JUNAID TECH INSTITUTE**
- More than two
- Less than ten

Question No: 52

Legacy system migration, however, is an easy task and there are a number of risks involved that need to be mitigated

- Simple
- Crucial
- None **AL-JUNAID TECH INSTITUTE**
- Easy

Question No: 53

___ engineering does not simply create a modern equivalent of an older program, rather new user and technology requirements are integrated into the reengineering effort

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- Forward AL-JUNAID TECH INSTITUTE
- None
- Reverse
- BPR

Question No: 54

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

- Requirement ID
- Creation Date
- Created By
- Received By AL-JUNAID TECH INSTITUTE

Question No: 55

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 major change in functionality
- There was partial change in functionality
- Bugs in previous functionality were removed

Question No: 56

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

- Version Control
- Configuration Auditing
- Test Case development AL-JUNAID TECH INSTITUTE
 - Change control

Question No: 57

are sometimes also knowns as walkthroughs or inspects

- Formal Technical review AL-JUNAID TECH INSTITUTE
- Testing
- Debugging
- Informal Technical review

Question No: 58

In order to use the PERT and CPM, which one of the following is not required?

- Inerdependencies

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- Estimation of effort
- **Teams communication mode details**
- Decomposition of tasks-also known as the work breakdown structure(WBS)

Question No: 59

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

- Requirements defect
- Design related defects
- **Source code defect** AL-JUNAID TECH INSTITUTE
- Zero level defect

Question No: 60

Cost of quality increase as we go from _____

- Detection to prevention to Failure
- **Prevention to Detection to Failure**
- Failure to Prevention to Detection
- Detection to Failure to Preservation

Question No: 61

Then Defect Removal Efficiency (DRE) is equal to:

ANS: - $DRE = E / (E+D)$

Question No: 62

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

ANS: - Error Index

Question No: 63

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

ANS: - Formal Technical Reviews

Question No: 64

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

ANS: - Pareto Principle

Question No: 65

Work products used to track errors is/are _____ during software development.

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ANS: - Requirements specification, design document and source code

Question No: 66

BCWP refers to:

ANS: - Budgeted cost of work performed so far

Question No: 67

Milestone represents:

ANS: - The defined target which you need to achieve

Question No: 68

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

ANS: - Quantitative

Question No: 69

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

ANS: - Formal Technical Review

Question No: 70

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

ANS: - Budgeted Cost of Work Schedule

Question No: 71

The degree of rigor in determining the set of tasks can be categorized as causal, Quick Reaction, strict and _____

- Uniform
- Unstructured
- Decomposed
- Structured **AL-JUNAID TECH INSTITUTE**

Question No: 72

if:

E = Errors found before shipment

D = Errors found during operation

Then Defect Removal Efficiency (DRE) is equal to:

- **$DRE = E / (E+D)$ AL-JUNAID TECH INSTITUTE**
- $DRE = E + (E+D)$

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- $DRE = E^* + (E + D)$
- $DRE = E - (E + D)$

Question No: 73

Two tools for computing critical path and project completion times from activity networks are

▶ CPM and PERT AL-JUNAID TECH INSTITUTE

- ▶ DRE and SQA
- ▶ FP and LOC
- ▶ ASD and BSD

Question No: 74

The boundary time defines the following parameter(s) for a project

the latest time for task initiation before the minimum project completion time is delayed
The earliest finish
The latest finish

All of the given options AL-JUNAID TECH INSTITUTE

Question No: 75

Quality is the compliance of software to implicit and explicit quality factors. Identify the explicit requirement from the following:

- ▶ Maintainability

▶ Compliance with CMMI AL-JUNAID TECH INSTITUTE

- ▶ Ease of use
- ▶ Efficiency

Mean Time To Repair (MTTR) is the

- ▶ Time when system remained unable for usage
- ▶ Time taken to fix the error

▶ Time taken to repair the software AL-JUNAID TECH INSTITUTE

- ▶ All of the given options are correct.

Question No: 50

In order to use the Pert and CPM, which one of the following is not required?

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

Teams communication mode detail AL-JUNAID TECH INSTITUTE

Question No: 51

SCM is the requirement of the ____ level(s) of CMM

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- ▶ First
- ▶ Second and later
- ▶ Third and later

▶ **Only Second** AL-JUNAID TECH INSTITUTE

Question No: 52

We can include following items during configuration item identification:

- ▶ User Manuals and Documentations
- ▶ Source Code
- ▶ Software Requirement Specifications

▶ **All of the given choices are correct** AL-JUNAID TECH INSTITUTE

Question No: 53

CPM stands for

- critical project Measure

• **Critical Path Method** AL-JUNAID TECH INSTITUTE

Question No: 54

Software configuration management is used to

- ▶ **Manage change in the software** AL-JUNAID TECH INSTITUTE
- ▶ Manage the financials accounts in an organization
- ▶ Manage the administration of company
- ▶ All of the given

Question No: 55

if: E = Errors found before shipment D = Errors found during operation

Then Defect Removal Efficiency(DRE) is equal to:

- **$DRE = E / (E+D)$** AL-JUNAID TECH INSTITUTE

Question No: 56

Quality assurance helps management in providing the necessary data about:

- **Product quality** AL-JUNAID TECH INSTITUTE
- Errors/bugs left Errors/bugs highlighted Defect reports

Question No: 58

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

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- Adding all the BCWS till that point for all tasks AL-JUNAID TECH INSTITUTE
- Multiplying all the BCWS till that point for all tasks
- Adding BCWS and EVA for all tasks till that point
- None of given options

Question No: 59

Following are effective guidelines for Review **except**

- ▶ We need to review the product not the producer
- ▶ Be sensitive to personal egos
- ▶ Errors should be pointed out gently

▶ **Tone should be high and strict** AL-JUNAID TECH INSTITUTE

Question No: 60

Which is not correct in the context of Poka-Yoke technique?

- ▶ Simple and cheap
- ▶ **Sophisticated and expensive** AL-JUNAID TECH INSTITUTE
- ▶ Part of Process
- ▶ Indication point should be near to the place where the problem occurred

Question No: 61

Software Availability can be calculated by the following equation:

- ▶ Availability = $(MTTR/MTTF) \times 100$
- ▶ Availability = $(MTBF/MTTR) \times 100$
- ▶ **Availability = $(MTTF/MTBF) \times 100$** AL-JUNAID TECH INSTITUTE
- ▶ Availability = $(MTBF/MTTF) \times 100$

Question No: 62

The higher the Error Index, the higher will be the Defect Removal Efficiency

- ▶ **True** AL-JUNAID TECH INSTITUTE
- ▶ False