In the Name of Allāh, the Most Gracious, the Most Merciful

Paper Pattern

MCQS 40   each 1 mark
Short 4   each 2 marks
Short 4   each 3 marks
long   4   each 5 marks

Question No : 1 of 52 Marks: 1 (Budgeted Time 1 Min)

While managing the historical data, we should consider the following **except**

Answer (Please select your correct option)

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○ Data should be collected only from scientific projects and applications   **ans**

○ Data should be collected from many projects

○ Data should be consistent

○ Correct data should be taken

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Question No : 2 of 52 Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

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○ Design

○ Code

○ Requirement

○ Testing   **ans**

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Defect Removal Efficiency can be increased by

Answer (Please select your correct option)

○ By increasing the team member in a team

○ Identifying the defect in early stages of development so that it may not be amplified

ans

○ Identifying the detect in the later stages of project

○ By performing the testing activity only

When a software is delivered to a client and then client reports the bug in it then that bug is termed as

Answer (Please select your correct option)

○ Error

○ Defect

ans

○ Mistake

○ Fault

Following are effective guidelines for Review **except**

Answer (Please select your correct option)

○ 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
ans

MTTF is the abbreviation of

Answer (Please select your correct option)

○ Moderate time to failure

○ Mean time to forward

○ Mean time to failure

ans

○ Median time to failure
Moderate time to failure
Median time to failure

Software Availability can be calculated by the following equation:

Answer (Please select your correct option)

○ Availability = (MTTR/MTTF) x 100

○ Availability = (MTBF/MTTR) x 100

○ Availability = (MTTF/MTBF) x 100

ans

○ Availability = (MTBF/MTTF) x 100

Poka Yoke is the name of a

Answer (Please select your correct option)

○ Japanese dish

○ QA technique

ans

○ Idiom
Idiom

○ None of the given

The ----------------- system provides a common value scale for every software task, regardless of the type of work being performed.

Answer (Please select your correct option)

○ SCM

○ CM

○ All of the given

○ Earned value
ans

Quality has a direct and indirect cost in the form of cost of:

Answer (Please select your correct option)

○ Prevention, appraisal, and failure
ans

○ People, process, and product

○ Customers, developers, and maintenance

○ All of the given options

In _____ a team is structured along a traditional hierarchy of authority.

Answer (Please select your correct option)

○ Closed paradigm
ans

○ Synchronous paradigm

○ Random paradigm

○ Open paradigm

_____ is data that influences an elementary process of the application being counted.

Answer (Please select your correct option)

- Elementary Process

- External Query

- External Output

- Control Information — ans

If an experienced user has to take an extensive training of software before use and he/she still finds difficulty to use it, we can say there may be issues related to the

Answer (Please select your correct option)

- Usability — ans

- Portability

- Correctness

- Reliability

In measuring Software Process Quality by using control charts, if the gap between the defects reported and defects fixed is increasing, then it means:

Answer (Please select your correct option)

- The product is in unstable condition. — ans

- The product is in stable condition.

- The product is ready for shipment.

- None of the given.

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

Answer (Please select your correct option)

○ CPM and PERT

ans

○ DRE and SQA

○ FP and LOC

○ ASD and BSD

Timeline chart is also known as the _____ chart

Answer (Please select your correct option)

○ Gantt

ans

○ PERT

○ FREE LANCE

○ None of the given options

The purpose of earned value analysis is to:

Answer (Please select your correct option)

○ Determine how to compensate developers based on their productivity

○ Provide a quantitative means of assessing software project progress

ans

○ Provide a qualitative means of assessing software project progress

○ Set the price point for a software product based on development effort

Mean Time To Repair (MTTR) is the

Answer (Please select your correct option)

○ Time when system remained unable for usage

○ Time taken to fix the error

○ Time taken to repair the software

ans

○ All of the given options

Although there is no industry standard for Release Numbering, typically, a _____ field compound number is used

Answer (Please select your correct option)

○ 1

○ 2

○ 3

ans

○ 4

Change Request is submitted by the _____

nooo idea

Answer (Please select your correct option)

○ Tester

○ Developer

○ Client

○ None of the given options

The management of creeping requirements is important for the ease of:

Answer (Please select your correct option)

○ Maintenance

○ Development

○ Testing

○ All of the given options
ans

The root cause(s) of project failure is/are

Answer (Please select your correct option)

○ Lack of user input

○ Incomplete requirement and specification

○ Creeping requirement
ans

○ All of the given options

Requirement management consists of the phase(s)

Answer (Please select your correct option)

○ Requirement elicitation

○ Requirement organization

○ Requirement documentation

○ All of the given options
ans

The goal of software development is to develop ---------- software, on time and on budget.

Answer (Please select your correct option)

○ Budgeted

○ User friendly

○ Complete

○ Quality

ans

While assessing a legacy system for further decision, one should decide the following about the supplier

Answer (Please select your correct option)

○ Is supplier still in existence?

○ Is supplier still in business?

○ Is supplier can provide support?

○ All of the given options

ans

_____ requires application of SE principles, methods, and concepts to re-create an existing application.

Answer (Please select your correct option)

○ Reverse Engineering

○ Business Engineering

○ Business Process Engineering

○ Forward Engineering

ans

_____ is a bad smell when a change requires lots of little changes in a lot of different classes.

Answer (Please select your correct option)

○ Short gun surgery

○ Debugging

○ Large class

○ Lazy class

If you find the code such that one type of change requires changing one subset of method, another type of change requires changing another subset then it is a symptom of

Answer (Please select your correct option)

○ Divergent change   ans

○ Duplicated code

○ Large class

○ Lazy class

With a complex class you have to move data and methods around in small pieces to avoid errors, it seems slow but it is the ....because you avoid debugging

Answer (Please select your correct option)

○ Quickest   ans

○ Problem

○ None of the given options

○ Slowest

Level _____ is the highest capability level of CMMI

Answer (Please select your correct option)

- 6
- 1
- 0

ans

- 5

Level _____ is the lowest capability level of CMMI in Continuous representation

Answer (Please select your correct option)

- 1
- 0
- 5
- 6

The processes at _____ of CMM focus on continually improving process performance through both incremental and innovative technological changes/improvements.

Answer (Please select your correct option)

- Level 5

ans

- Level 1
- Level 4
- Level 3

Quantitative process-improvement objectives for the organization are established, continually revised to reflect changing business objectives at CMM _____

Answer (Please select your correct option)

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○ Level 3

○ Level 2

○ Level 5   **ans**

○ Level 1

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There are many reasons for which the legacy system become difficult to maintain EXCEPT

Answer (Please select your correct option)

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○ No documentation is available   **ans**

○ Language in which system was developed has become obsolete

○ Lack of consistency as different parts of the system have been developed by different teams

○ None of the given options

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"Qualitative feedback from the process for continuous process improvement" refers to _____ of CMM

Answer (Please select your correct option)

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○ Repeatable

○ Defined

○ Managed   **ans**

○ Optimizing

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In order to use the data for estimation and drawing conclusions, it must be _____

Answer (Please select your correct option)

○ Stabilized

○ Processed

○ Filtered

○ Base-lined
ans

In context of individual control charts, if a single metrics value lies outside UNPL, it means that process is:

Answer (Please select your correct option)

○ Within the control

○ Out of the control

○ Normalized

○ Not normalized

Degree of uncertainty that the product will meet its requirements and be fit for its intended use is called _____

Answer (Please select your correct option)

○ Performance risk
ans

○ Cost risk

○ Support risk

○ Schedule risk

In _____ the potential for new technology or new business idea is explored.

Answer (Please select your correct option)

○ Concept proofing project

○ Concept implementation project

○ Concept development project

ans

○ Concept scoping project

In context of function point analysis, EI stands for _____

Answer (Please select your correct option)

○ Export input

○ Expert input

○ External inline

○ External input

ans

Write down the formula for calculating Mean time between failure (MTBF).

Answer (Please click here to Add Answer)

Normal | Arial | 12 | B I U

Marks: 2 (Budgeted Time 4 Min)

"A student claims that requirement errors are the most common type of software development errors and are most costly to fix". Do you agree with his/her statement?

Answer (Please click here to Add Answer)

Yes, Agree. Project success depends on good requirement management. It may be recalled that requirement errors are the most common type of software development errors and the most costly to fix. It may also be recalled that requirement errors are listed as one of the roots causes o

Marks: 2 (Budgeted Time 4 Min)

"Message Chains can be a bad smell". How ?

Answer (Please click here to Add Answer)

Marks: 2 (Budgeted Time 4 Min)

"Normally Build and Fix model is not suitable for large and complex software", Why?

Answer (Please click here to Add Answer)

What would you understand by the term Software Reliability?

Answer (Please click here to Add Answer)

Software reliability is another very important quality factor and is defined as probability
of failure free operation of a computer program in a specified environment for a specified
time.

Normally what type of information is included in Configuration Status Reporting (CSR)?

Answer (Please click here to Add Answer)

Configuration Status Reporting (CSR) is also known as status acco
the following items:
– What happened?
– Who did it?
– When did it happen?

Do you think that a comment can be a "bad smell"? Provide reason for your answer.

Answer (Please click here to Add Answer)

Marks: 3 (Budgeted Time 6 Min)

Does software quality depend only on the source code? Comment on it.

Answer (Please click here to Add Answer)

Marks: 5 (Budgeted Time 10 Min)

List the steps of software reengineering process model.

Note: just list the steps, do not provide internal details.

Answer (Please click here to Add Answer)

Marks: 5 (Budgeted Time 10 Min)

Do you think that the use of statistical control techniques like the one given by Walter Shewart is valid (from accuracy point of view) in domain like software engineering? give your comments.

Answer (Please click here to Add Answer)

Marks: 5 (Budgeted Time 10 Min)

List some (at least three) of the artifacts related to software testing, that can be treated as software configuration item (SCI).

Answer (Please click here to Add Answer)

Marks: 5 (Budgeted Time 10 Min)

Differentiate between staged and continuous representation of CCMI models.

Note: you can provide your answer in tabular format.

Answer (Please click here to Add Answer)