

CS605 All DATA in 1 File
By
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Which one of the following activities does not belong to Risk Mitigation, Monitoring, and Management Plan?

- Risk Identification
- Risk Projection
- Risk Mitigation
- Risk avoidance
- Risk Management and Contingency Planning

Pair programming is associated with:

- RAD
- Incremental development
- eXtreme Programming
- Prototyping
- Synchronize and stabilize

- The prototyping model of software development is
- A reasonable approach when requirements are well defined.
 - A useful approach when a customer cannot define requirements clearly.
 - The best approach to use for projects with large development teams.
 - A risky model that rarely produces a meaningful product.
 - An old fashioned model that is rarely used any more.

Which maturity level is characterised by:

"Basic project management processes established to track cost, schedule and functionality. Has the necessary process discipline in place to repeat earlier successes on projects with similar applications".

- Level 1
- Level 2
- Level 3
- Level 4
- Level 5

Defect prevention is defined as:

- Avoiding defect insertion
- Avoiding defect insertion, but fixing errors when reported
- Finding and fixing errors after insertion
- Finding and fixing errors after release
- Not reporting errors

Which one of the following principles/techniques is NOT a software projects scheduling principle?

- Interdependency identification
- time allocation
- effort validation
- Function point analysis
- Milestone definition

Which one of the following is the 4th level of the SEI Capability Maturity Model?

initial or ad hoc

optimizing

managed

defined

repeatable

Which one of the following is NOT a useful indicators of software quality?

Correctness

Code size

Maintainability

Integrity

Usability

Which one of the following does not belong to a strategy for dealing with risk?

Risk avoidance

Security risk assessment

Risk monitoring

Risk management

Contingency planning

Who of the following is NOT usually present in a technical review:

User

Quality Engineer

The programming tools supplier

Specialist with knowledge of the application

Architect

What activity does a software project manager need to perform to minimize the risk of software failure?

double the project team size

request a large budget

allow absolutely no schedule slippage

define milestones and track progress

Request 50% more time than estimated

The quality of a software is high, if

the code produced for one system can be applied to others with little or no modification.

the allocations are difficult to cope with changes in the organization.

it does not allow to make copies.

it causes the user no surprises during operation.

the modifications are reflected in the documentation.

Three categories of risks are

business risks, personnel risks, budget risks

project risks, technical risks, business risks

planning risks, technical risks, personnel risks

management risks, technical risks, design risks

The software reengineering process model includes restructuring activities for which of the following work items?

Code

Documentation

Data

all of the given options

One graphical technique for determining whether a process exhibits out-of-control change behavior is a.
control chart
fishbone diagram
Pareto diagram
process diagram

What team structure for the following situation would you choose and why?

You have been appointed a software project manager for a company that services the genetic engineering world. Your job is to manage the development of a new software product that will accelerate the pace of gene typing. The work is R&D oriented, but the goal is to produce a product within the next year

Change control is not necessary if a development group is making use of an automated project database tool.

T

F

The linear sequential model of software development is also known as the

Classical life cycle model

Fountain model

Spiral model

Chaos model

Doubling the size of your software project team is guaranteed to cut project completion time in half.

1. T

2. F

The number of people required for a software project is determined

after an estimate of the development effort is made.

after an estimate of the development effort is made.

from an assessment of the technical complexity of the system.

all of the given options

Which of these benefits can be achieved when software is restructured?

higher quality programs

reduced maintenance effort

software easier to test

all of the given options

The first step in project planning is to

determine the budget.

select a team organizational model.

determine the project constraints.

establish the objectives and scope.

The goal of quality assurance is to provide management with the data needed to determine which software engineers are producing the most defects.

1. True

2. False

Question No: 1 (Marks: 1) - Please choose one

A law affirming that to continue after a certain level of performance has been reached will result in a decline in effectiveness. This law is known as

► Law of Diminishing returns

- ▶ Law of effectiveness
- ▶ Law of Saturation
- ▶ Law of Marketing returns

Question No: 2 (Marks: 1) - Please choose one

Build and Fix model is a _____ type of software development activity.

- ▶ Mathematical
- ▶ Perfect
- ▶ Haphazard
- ▶ Planned

Question No: 3 (Marks: 1) - Please choose one

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

- ▶ closed paradigm
- ▶ synchronous paradigm
- ▶ random paradigm
- ▶ open paradigm

Question No: 4 (Marks: 1) - Please choose one

MTTC is the abbreviation of

- ▶ measured time to change
- ▶ mean time to collaborate
- ▶ mean time to change
- ▶ measure time to cope

Question No: 5 (Marks: 1) - Please choose one

While creating matrix for a set of projects, data should be collected that belongs to a similar domain

- ▶ true
- ▶ false

Question No: 6 (Marks: 1) - Please choose one

The rapid application development model is

- ▶ Another name for component-based development.
- ▶ A useful approach when a customer cannot define requirements clearly
- ▶ A high speed adaptation of the linear sequential model.
- ▶ All of the given

Question No: 7 (Marks: 1) - Please choose one

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

- ▶ Data should be collected only from scientific projects and applications
- ▶ Data should be collected from many projects
- ▶ Data should be consistent
- ▶ Correct data should be taken

Question No: 8 (Marks: 1) - Please choose one

Quality costs may be divided into costs associated with

- ▶ prevention, appraisal, and failure
- ▶ people, process, and product
- ▶ customers, developers, and maintenance
- ▶ all of the given

Question No: 9 (Marks: 1) - Please choose one

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

- ▶ Error
- ▶ Defect
- ▶ Mistake
- ▶ Fault

Question No: 10 (Marks: 1) - Please choose one

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
- ▶ All of the given options are correct.

Question No: 11 (Marks: 1) - Please choose one

Reliability and Safety are same concepts with respect to software quality

- ▶ True
- ▶ False

Question No: 12 (Marks: 1) - Please choose one

Software configuration management is used to

- ▶ Manage change in the software
- ▶ Mangle the financials accounts in an organization
- ▶ Manage the administration of company
- ▶ All of the given

Question No: 13 (Marks: 1) - Please choose one

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

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

Question No: 14 (Marks: 1) - Please choose one

If a new version of a product is released by fixing the bugs in the previous release then it is termed as _____

- ▶ Product Update
- ▶ Product Upgrade
- ▶ Defect Removal
- ▶ Product Performance

Question No: 15 (Marks: 1) - Please choose one

The Evolution Graph signifies the

- ▶ version relationship
- ▶ baseline of a particular release
- ▶ change control activity
- ▶ all of the given

Question No: 16 (Marks: 1) - Please choose one

The management of creeping requirements is important for the ease of

- ▶ maintenance
- ▶ development
- ▶ testing

- ▶ all of the given

Question No: 17 (Marks: 1) - Please choose one

Following are the components of a Legacy system except:

- ▶ business processes
- ▶ system hardware
- ▶ marketing
- ▶ application software

Question No: 18 (Marks: 1) - Please choose one

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

- ▶ Language in which system was developed become obsolete
- ▶ lack of consistency as different parts of the system have been developed by different teams
- ▶ None of these
- ▶ No documentation is available

Question No: 19 (Marks: 1) - Please choose one

The application software is assessed on the basis of following factors except

- ▶ Documentation
- ▶ Understandability
- ▶ Code Refactoring
- ▶ Test data

Question No: 20 (Marks: 1) - Please choose one

The process of rediscovering the software design is called

- ▶ Reverse Engineering
- ▶ Business Engineering
- ▶ Business Process Engineering
- ▶ Forward Engineering

Question No: 21 (Marks: 1) - Please choose one

In _____, new user and technology requirement can also be integrated into the re-engineering effort.

- ▶ Backward re-engineering
- ▶ Forward re-engineering
- ▶ Business Engineering
- ▶ Business Process Engineering

Question No: 22 (Marks: 1) - Please choose one

A redesigned business process must be prototyped before it is fully integrated into the business.

- ▶ False
- ▶ True

Question No: 23 (Marks: 1) - Please choose one

In _____ representation of CMMI model, consideration is given to improve selected processes areas.

- ▶ Staged
- ▶ Continuous

)

Question No: 24 (Marks: 1) - Please choose one

The purpose of earned value analysis is to

- ▶ determine how to compensate developers based on their productivity
- ▶ provide a quantitative means of assessing software project progress
- ▶ **provide a qualitative means of assessing software project progress**
- ▶ set the price point for a software product based on development effort

Question No: 25 (Marks: 1) - Please choose one

The software plan is not a static document, it is frequently adjusted to make the project appear on track to meet all deadlines and quality targets.

- ▶ **True**
- ▶ False

Question No: 26 (Marks: 1) - Please choose one

There are tools available in the market for project tracking. These tools can automatically track and manage the project replacing the need of any human being as a Project Manager.

- ▶ True
- ▶ **False**

Question No: 27 (Marks: 1) - Please choose one

Timeline chart is also known as the _____ chart

- ▶ **Gantt**
- ▶ PERT
- ▶ FREE LANCE
- ▶ None of the given

Question No: 28 (Marks: 1) - Please choose one

The processes at ----- is focus on continually improving process performance through both incremental and innovative technological changes/improvements.

- ▶ **Level 5**
- ▶ Level 1
- ▶ Level 4
- ▶ Level 3

Question No: 29 (Marks: 1) - Please choose one

In a complex system that will lead to muchcode to write and maintain.

- ▶ **More**
- ▶ None of the given
- ▶ Less
- ▶ Meaningless

Question No: 30 (Marks: 1) - Please choose one

Review is a type of _____ that helps preventing the bugs to move in the next stage of software development

- ▶ Bug seeding tool
- ▶ **Filter**
- ▶ Alarm
- ▶ None of the given

Question No: 31 (Marks: 2)

Why software engineers collect measures?

To have the accurate requirements

To achieve Goals more effectively and more efficiently

Question No: 32 (Marks: 2)

Give two importances of reviews?

With Technical review you may come to know more about the technical requirements and specifications.

reviews the process description for compliance with the organizational policies, internal software standards, externally imposed standards, and other parts of the software project plan.

Question No: 33 (Marks: 2)

Discuss the role of program restructuring in software reengineering?

In this case we modify source code and data in order to make it amenable to future changes. This includes code as well as data restructuring. Code restructuring requires redesign with same function with higher quality than original program and data restructuring involves restructuring the database or the database schema. It may also involve code restructuring. All will be in software reengineering/ Program is restructured after the reverse engineering phase.

Question No: 34 (Marks: 2)

Give the properties of Capability Levels?

0 Incomplete

1 Performed

2 Managed

3 Defined

4 Quantitatively Managed

5 Optimizing

Give any six attributes of Requirements?

Software Quality Assurance

Quality Assurance

Cost of quality

SQA Activities

SQA Group Activities

Quality Control

Question No: 37 (Marks: 3)

List the factors involved in calculating the cost of Reengineering?

Current annual maintenance cost for an application

Current annual operation cost for an application

Current annual business value of an application

Predicted annual maintenance cost after reengineering

Predicted annual operations cost after reengineering

Predicted annual business value cost after reengineering

Estimated reengineering cost

Estimated reengineering calendar time

Reengineering risk factor
Expected life of the system

Question No: 38 (Marks: 3)

How do you identify the problems in a software?

Question No: 39 (Marks: 5)

Draw the Software Reengineering Process Model.

Question No: 40 (Marks: 5)

Can you think it is difficult to implement CMM level in small software companies?

The CMM Level where basic project management processes are established to track cost, schedule, and functionality. That is, it is characterized by basic project management practices. It also implies that without project management not much can be achieved. In Small software house

– Project size

As the project size increases, the complexity of the problem also increases and therefore its management also becomes more difficult.

– Delivery deadline

Delivery deadline directly influences the resources and quality.

– Budgets and costs

A good estimate of budget, cost and schedule is essential for any successful project.

– Application domain

Application domain also plays an important role in the success of a project. The chances of success of a project in a well-known application domain would be much better than of a project in a relatively unknown domain.

So implementation of all the procedure for this Level can be a bit difficult for small software houses because they usually work on small projects where cost and time always metter.

Question No: 1 (Marks: 1) - Please choose one

In order to measure the design quality, if the frequency of ripple defects is too large, then it means that there is tight coupling and hence the

- ▶ design is maintainable
- ▶ **design is not maintainable**
- ▶ design has completed
- ▶ none of the given

Question No: 2 (Marks: 1) - Please choose one

We can include following type of data in the database for creating matrix against each project **except**

- ▶ name of project
- ▶ size of project

- ▶ company's CEO name
- ▶ cost of project

Question No: 3 (Marks: 1) - Please choose one

The only reason for an estimate to be unreliable is lack of experience related to the application on the part of the estimator.

- ▶ true
- ▶ false

Question No: 4 (Marks: 1) - Please choose one

A consideration of software scope must include an evaluation of all external interfaces.

- ▶ true
- ▶ false

Question No: 5 (Marks: 1) - Please choose one

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

- ▶ Design
- ▶ Code
- ▶ Requirement
- ▶ Testing

Question No: 6 (Marks: 1) - Please choose one

Usually the performance of the organization change over-night.

- ▶ True
- ▶ False

Question No: 7 (Marks: 1) - Please choose one

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

- ▶ Maintainability
- ▶ Compliance with CMMI
- ▶ Ease of use
- ▶ Efficiency

Question No: 8 (Marks: 1) - Please choose one

Following are the benefits of conducting review **except**

- ▶ Help in finding the size of the project
- ▶ Helps in verifying the quality of product
- ▶ Help in identifying where improvement is required.
- ▶ Helps in identifying the bugs in the work product

Question No: 9 (Marks: 1) - Please choose one

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

▶ All of the given options are correct.

Question No: 10 (Marks: 1) - Please choose one

Reliability and Safety are same concepts with respect to software quality

▶ True

▶ False

Question No: 11 (Marks: 1) - Please choose one

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

▶ First

▶ Second and later

▶ Third and later

▶ Only Second

Question No: 12 (Marks: 1) - Please choose one

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

Question No: 13 (Marks: 1) - Please choose one

If a new version of a product is released by fixing the bugs in the previous release then it is termed as _____

▶ Product Update

▶ Product Upgrade

▶ Defect Removal

▶ Product Performance

Question No: 14 (Marks: 1) - Please choose one

Every node signifies _____ version of a release

▶ one

▶ two

▶ three

▶ four

Question No: 15 (Marks: 1) - Please choose one

The Change Control Authority does not have the rights to permit to bring the change in the software

▶ True

▶ False

Question No: 16 (Marks: 1) - Please choose one

Check in and Check out is actually one and the same process with two different names

▶ True

▶ False

Question No: 17 (Marks: 1) - Please choose one

There could be multiple GUIs to satisfy one requirement

▶ True

▶ False

Question No: 18 (Marks: 1) - Please choose one

_____ is the process of Design recovery. At this stage the documentation

of the overall functionality is created.

- ▶ Database Engineering
- ▶ **Reverse Engineering**
- ▶ Refactoring
- ▶ Forward Engineering

Question No: 19 (Marks: 1) - Please choose one

In code restructuring, we do not change the functionality of the code

- ▶ True
- ▶ **False**

Question No: 20 (Marks: 1) - Please choose one

In _____, new user and technology requirement can also be integrated into the re-engineering effort.

- ▶ Backward re-engineering
- ▶ Forward re-engineering
- ▶ Business Engineering
- ▶ Business Process Engineering

Question No: 21 (Marks: 1) - Please choose one

A _____ process is “a set of logically related tasks performed to achieve a defined business outcome”.

- ▶ Business
- ▶ Software
- ▶ CMM
- ▶ ISO

Question No: 22 (Marks: 1) - Please choose one

Software refactoring is a process in which

- ▶ External behavior of the system does not change
- ▶ Internal behavior of the system does not change
- ▶ Design of the software changes
- ▶ Architecture of the software changes

Question No: 23 (Marks: 1) - Please choose one

The formal methods model of software development makes use of mathematical methods to

- ▶ define the specification for computer-based systems
- ▶ all of the given
- ▶ develop defect free computer-based systems
- ▶ verify the correctness of computer-based systems

Question No: 24 (Marks: 1) - Please choose one

Which one of the following describes the data and control to be processed, function, performance, constraints, interfaces, and reliability?

- ▶ Product Quality
- ▶ Software scope estimation
- ▶ Resources requirements
- ▶ Time requirements

Question No: 25 (Marks: 1) - Please choose one

Which one of the following describes the data and control to be processed, function, performance, constraints, interfaces, and reliability?

- ▶ Resources requirements
- ▶ **Software scope estimation**
- ▶ Time requirements
- ▶ Product Quality

Question No: 26 (Marks: 1) - Please choose one

The software plan is not a static document, it is frequently adjusted to make the project appear on track to meet all deadlines and quality targets.

- ▶ True
- ▶ False

Question No: 27 (Marks: 1) - Please choose one

The projects are classified into following categories except

- ▶ New application development
- ▶ Reengineering projects
- ▶ Concept development projects
- ▶ Marketing Development Projects

Question No: 28 (Marks: 1) - Please choose one

The processes at ----- is focus on continually improving process performance through both incremental and innovative technological changes/improvements.

- ▶ **Level 5**
- ▶ Level 1
- ▶ Level 4
- ▶ Level 3

Question No: 29 (Marks: 1) - Please choose one

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

- ▶ **Level 3**
- ▶ Level 2
- ▶ Level 5
- ▶ Level 1

Question No: 30 (Marks: 1) - Please choose one

Reliability of a software is a

- ▶ functional requirement
- ▶ **non-functional requirement**
- ▶ Design Requirement
- ▶ None of the given

Question No: 31 (Marks: 2)

What issues must be included in the review list?

Question No: 32 (Marks: 2)

What is meant by requirement management?

Requirement Management is defined as a systematic approach to eliciting, organizing, and documenting the requirements of the system, and a process that establishes and maintains agreement between the customer and the project team on the changing requirements of the system.

Question No: 33 (Marks: 2)

Give any two advantages of Software CMM?

Question No: 34 (Marks: 2)

How can we implement metrics in small organizations ?

Question No: 35 (Marks: 3)

Give in brief any three factors related with operation?

Question No: 36 (Marks: 3)

Discuss the hazards those are associated with a computer-based cruise control for an automobile?

Question No: 37 (Marks: 3)

What would you understand by the conventional numbering of the product release?

Question No: 38 (Marks: 3)

Write down the levels of Capability Maturity Model (starting from 0-5)?

Question No: 39 (Marks: 5)

What are the risks associated in the migration of a Legacy system to a new system?

Question No: 40 (Marks: 5)

How Duplicate Code can cause problem in the maintenance of a program? Explain briefly.

Miscommunication among project staff is one of the reasons of the failure of the software project

True

False

_____ model is a haphazard type of software development activity.

Select correct option:

Water fall (not confirmed)

Incremental

Prototyping

Build and Fix

Total Marks: 1

Water fall model is a document driven model.

Select correct option:

True

False

Question # 6 of 10 (Start time: 10:14:12 AM)

Total Marks: 1

Spiral model has _____ dimensions.

Select correct option:

2

3

4

None of the above

Question # 7 of 10 (Start time: 10:14:36 AM)

Total Marks: 1

The _____ model of software development is a good approach when core product is required quickly.

Select correct option:

Incremental

Linear Sequential

Prototyping (not confirmed)

None of the above

Question # 9 of 10 (Start time: 10:17:32 AM)

Total Marks: 1

In _____ team organization, there is no permanent leader rather there are task coordinators.

Select correct option:

Controlled Decentralized

Democratic Decentralized

Controlled Centralized

Synchronous paradigm

Question # 10 of 10 (Start time: 10:18:17 AM)

Total Marks: 1

_____ is an Object Oriented model.

Select correct option:

Spiral

Water fall

Incremental

Fountain

Question # 2 of 10 (Start time: 02:56:43 PM) Total Marks: 1

Vision phase in a software process focuses on _____.

Select correct option:

What

[Why](#)

How

Change

Question # 4 of 10 (Start time: 02:57:54 PM) Total Marks: 1

Rapid application development is another form of _____.

Select correct option:

[Incremental model](#)

Prototyping model

Linear Sequential model

None of the above

_____ phase in a software process focuses on change.

Select correct option:

Vision

[Maintenance](#)

Definition

Development

The _____ model of software development is a useful approach when a customer cannot define requirements clearly.

Select correct option:

Prototyping

Water fall

RAD

Build and Fix

_____ model has a major drawback in that the delivered product may not fulfill the customer's requirements.

Select correct option:

Water fall

Build and Fix

Prototyping

Integrated water fall and prototyping

Quiz Start Time: 02:58 PM Time Left 84 sec(s)

Question # 3 of 10 (Start time: 02:59:47 PM) Total Marks: 1

MOI model of leadership stands for

Select correct option:

Motivation , Operationalize ,Integration

Misunderstanding , Object, Ideas

Motivation , Organization , Innovation

Miscommunication , Organization, Invention

The _____ model is used to overcome issues related to understanding and capturing of user requirements.

Select correct option:

Rapid Prototyping

Water fall

Build and Fix

None of the above

_____ activity is performed throughout software production

Select correct option:

- Maintenance
- Development
- Analysis
- Quality Assurance**

: In _____ model the product is developed without any proper design and specifications.

Select correct option:

- Water fall
- Build and Fix
- Prototyping
- None of the above**

software project management focuses on the four P's: These are

Select correct option:

- People , Product , Process , Problem
- People , Product , Process , Project**
- People , Passion , Process , Project
- People , Passion , Planning , Project

: _____ model of software development is a good approach when core product is required quickly.

Select correct option:

- Incremental
- Linear Sequential
- Prototyping**
- None of the above

: The _____ dimension in rational unified process model represents the dynamic aspect of the process.

Select correct option:

- Horizontal**
- Angular
- Vertical
- Regular

_____ model is developed keeping in mind the element of risk in the development of software

Select correct option:

- Spiral**

RAD
Incremental
Synchronize and Stabilize

_____ model is adopted by Microsoft
Select correct option:

RAD
Build and Fix
Spiral
Synchronize and Stabilize

_____ teams generate more and better solutions than individuals and are most useful for complex problems

Select correct option:

Decentralized

Centralized

Synchronize and Stabilize

: In _____, there is both vertical and horizontal communication.

Select correct option:

Controlled decentralized (CD)

Democratic decentralized (DD)

Controlled centralized (CC)

Synchronous paradigm (SP)

_____ dimension of Spiral model represents the cumulative cost to date

Select correct option:

Radial

Angular

The important feature of extreme programming is the concept of _____.

Select correct option:

Feedback

Risk assessment

Pair programming

Requirement elicitation

In software development _____ is performed at the end of each phase.

Select correct option:

Verification

Validation

_____paradigm,structures a team loosely and depends on individual initiative of the team members

Select correct option:

Closed

Random

Open

Synchronous

Quiz Start Time: 04:38 PM Time Left 73

sec(s)

Question # 3 of 10 (Start time: 04:39:08 PM) Total Marks: 1

Unrealistic deadline is NOT one of the reasons of project failure.

Select correct option:

True

False

Question # 7 of 10 (Start time: 04:44:10 PM) Total Marks: 1

Spiral model has _____ dimensions.

Select correct option:

2

3

4

None of the above

Question # 4 of 10 (Start time: 06:26:17 PM) Total Marks: 1

Determination of theis a pre-requisite of all sorts of estimates, including, resources, time, and budget.

Select correct option:

software scope

software Risk

software Quality

software Management

Question # 5 of 10 (Start time: 06:26:33 PM) Total Marks: 1

We need to employ some statistical techniques and plot the result ----- . This is known as statistical control techniques.

Select correct option:

Graphically

Automatically

Manually

Personally

Question # 6 of 10 (Start time: 06:26:59 PM) Total Marks: 1

When more than one user interpret the same requirement in different ways then we can say that the requirements are

Select correct option:

- None of the given
- Incomplete
- Ambiguous not sure**
- Incorrect

Quiz Start Time: 06:23 PM

Time Left 89

sec(s)

Question # 7 of 10 (Start time: 06:28:02 PM) Total Marks: 1

The extent to which a program satisfies its specifications and fulfills the customer's mission objectives is

Select correct option:

- Integrity
- Reliability
- Correctness**
- None of given

Question # 8 of 10 (Start time: 06:28:25 PM) Total Marks: 1

Several entities are always created ----- and deleted together then this is a strong indication that they should be grouped into ----- logical file/files.

Select correct option:

- Together, Single**

Together, Multiple

Together, Double

All of the given

Time Left 89

sec(s)

Question # 9 of 10 (Start time: 06:28:52 PM) Total Marks: 1

In case some software, it is extremely easy to operate with intuitive interface conforming to most excellent GUI practices of the industry. It needs very little training -----

Select correct option:

Less than one hour

Less than two hour not sure

Less than five hour

Less than ten hour

Question # 10 of 10 (Start time: 06:30:21 PM) Total Marks: 1

Metrics to assess the quality of the analysis models and the corresponding software specification were proposed

Select correct option:

in 1993- 1999.

Ricardo in 1993

Davis in 1990

Davis in 1993

Question # 1 of 10 (Start time: 06:31:40 PM) Total Marks: 1

Determination of theis a pre-requisite of all sorts of estimates, including, resources, time, and budget.

Select correct option:

software scope

software Risk

software Quality

software Management

Question # 2 of 10 (Start time: 06:31:56 PM) Total Marks: 1

This chart is then used to develop the individual control chart is called statistical control techniques.

Select correct option:

Yes

No

Question # 3 of 10 (Start time: 06:33:17 PM) Total Marks: 1

Which statement is correct?

Select correct option:

None of the given not sure

The greater the dependency between the components the lesser is coupling

The lesser the dependency between the components the greater is coupling

The greater the dependency between the components the greater is coupling

89

sec(s)

Question # 4 of 10 (Start time: 06:33:44 PM) Total Marks: 1

Function/Test matrix is a type of

Select correct option:

Interim Test report

Final test report

Project status report not sure

Management report

Question # 2 of 10 (Start time: 06:37:48 PM) Total Marks: 1

_____ help in finding the matrix to be stable or unstable

Select correct option:

Control chart

Directed Graph

Cyclic chart

Base line graph

Question # 3 of 10 (Start time: 06:37:57 PM) Total Marks: 1

Function/Test matrix is a type of

Select correct option:

Interim Test report

Final test report

Project status report not sure

Management report

Question # 4 of 10 (Start time: 06:38:05 PM) Total Marks: 1

The extent to which a program satisfies its specifications and fulfills the customer's mission objectives is

Select correct option:

Integrity

Reliability

Correctness

None of given

Question # 5 of 10 (Start time: 06:38:30 PM) Total Marks: 1

Several entities are always created ----- and deleted together then this is a strong indication that they should be grouped into ----- logical file/files.

Select correct option:

- Together, Single**
- Together, Multiple
- Together, Double
- All of the given

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

Select correct option:

- The product is in unstable condition.**
- The product is ready for shipment
- The product is in stable condition.
- None of the above

Question # 7 of 10 (Start time: 06:40:12 PM) Total Marks: 1

When more than one user interpret the same requirement in different ways then we can say that the requirements are

Select correct option:

- None of the given
- Incomplete
- Ambiguous not sure**
- Incorrect

This chart is then used to develop the individual control chart is called statistical control techniques.

Select correct option:

Yes

No

Question # 10 of 10 (Start time: 06:41:16 PM) Total Marks: 1

In case some software, it is extremely easy to operate with intuitive interface conforming to most excellent GUI practices of the industry. It needs very little training -----

Select correct option:

Less than one hour

Less than two hour not sure

Less than five hour

Less than ten hour

Question # 1 of 10 (Start time: 03:18:25 PM) Total Marks: 1

A -----entity is the one which have any ----- in the problem domain without some other entity.

Select correct option:

Strong, Role*

All of the given

Weak, Function

None of the Given P # 47

-----give you a better insight into the state of the process or product.

Select correct option:

Metrics

Efficiency

Reliability

Usability

We need to employ some statistical techniques and plot the result ----- . This is known as statistical control techniques.

Select correct option:

Graphically

Automatically

Manually

Personally

Question # 5 of 10 (Start time: 03:23:24 PM) Total Marks: 1

The extent to which a program satisfies its specifications and fulfills the customer’s mission objectives is

Select correct option:

Integrity

Reliability

Correctness

None of given

Question # 8 of 10 (Start time: 03:26:46 PM) Total Marks: 1

Metrics to assess the quality of the analysis models and the corresponding software specification were proposed

Select correct option:

in 1993- 1999.

Ricardo in 1993

Davis in 1990

Davis in 1993

Question # 9 of 10 (Start time: 03:27:19 PM) Total Marks: 1

The most important objective of any engineering activity is to produce high quality product with limited resources and-----

Select correct option:

Time

Persons

Cost

Metrics

Question # 10 of 10 (Start time: 03:27:53 PM) Total Marks: 1

Function/Test matrix is a type of

Select correct option:

Interim Test report

Final test report

Project status report

Management report

Which statement is correct?

Select correct option:

None of the given

The greater the dependency between the components the lesser is coupling

The lesser the dependency between the components the greater is coupling

The greater the dependency between the components the greater is coupling

help in finding the matrix to be stable or unstable

Select correct option:

Control chart

Directed Graph

Cyclic chart

Base line graph

The amount of computing resources required by a program to perform its function is

Select correct option:

Efficiency

Integrity

Reliability

None of given

Question # 6 of 10 (Start time: 12:35:50 PM) Total Marks: 1

The extent to which a program satisfies its specification and fulfills the customer's mission objectives is said to be achieving the

Select correct option:

Correctness

Reliability

Efficiency

Usability

of theis a pre-requisite of all sorts of estimates, including, resources, time, and budget.

Select correct option:

software scope

software Risk

software Quality

software Management

When more than one user interpret the same requirement in different ways then we can say that the requirements are

Select correct option:

None of the given

Incomplete

Ambiguous

Incorrect

Extent to which access to software or data by unauthorized persons can be controlled and called

Select correct option:

None of given

Efficiency

Reliability

Integrity

ILF is a ----- identifiable group of logically control in formations ----- the boundary the application.

Select correct option:

user, within

user, without

All of the given

user, along

.....technique was initially developed for manufacturing processes in the 1920's by Walter Shewart.

Select correct option:

Upper Control Line

Contorl chart

CMP

Quality

Question # 6 of 10 (Start time: 12:44:22 PM) Total Marks: 1

A -----entity is the one which have any ----- in the problem domain without some other entity.

Select correct option:

Strong, Role*

All of the given

Weak, Function

None of the Given

The extent to which a program satisfies its specifications and fulfills the customer's mission objectives is

Select correct option:

Integrity

Reliability


Correctness

None of given

Question # 1 of 10 (Start time: 10:23:37 PM)

Total Marks: 1

Metrics to assess the quality of the analysis models and the corresponding software specification were proposed

 Select correct option:

in 1993- 1999.

Ricardo in 1993

Davis in 1990

Davis in 1993

TRUE

Question # 2 of 10 (Start time: 10:25:03 PM) Total Marks: 1

The amount of computing resources required by a program to perform its function is | | | | | | | | | | ..

▶ Select correct option:

Efficiency

Integrity

Reliability

None of given

TRUE

Question # 3 of 10 (Start time: 10:25:55 PM) Total Marks: 1

ILF is a----- identifiable group of logically control in formations----- the boundary the application.

▶ Select correct option:

user, within

user, without

All of the given

user, along

TRUE

Question # 4 of 10 (Start time: 10:27:06 PM) Total Marks: 1

This chart is then used to develop the individual control chart is called statistical control techniques.

▶ Select correct option:

Yes

No

TRUE

Question # 5 of 10 (Start time: 10:27:41 PM) Total Marks: 1

Which statement is correct?

▶ Select correct option:

None of the given

The greater the dependency between the componen

The lesser the dependency between the components

The greater the dependency between the componen

TRUE

Several entities are always created ----- and deleted together then this is a strong indication that they should be grouped into----- logical file/files.

▶ Select correct option:

Together, Single

TRUE

Together, Multiple

Together, Double

All of the given

Quiz Start Time: 10:23 PM

Time Left 57 sec(s)

Question # 7 of 10 (Start time: 10:29:26 PM)

Total Marks: 1

Several entities are always created ----- and deleted together then this is a strong indication that they should be grouped into----- logical file/files.

▶ Select correct option:

Together, Single

TRUE

All of the given

Together, Double

Together, Multiple



[Click here to Save Answer & Move to Next Question](#)

Question # 8 of 10 (Start time: 10:30:23 PM)

Total Marks: 1

.....technique was initially developed for manufacturing processes in the 1920's by Walter Shewart.

Select correct option:

Upper Control Line

Control chart

CMP

Quality

TRUE

Question # 9 of 10 (Start time: 10:31:30 PM)

Total Marks: 1

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

Select correct option:

The product is in unstable condition.

The product is ready for shipment

The product is in stable condition.

None of the above

TRUE

Question # 10 of 10 (Start time: 10:32:21 PM) Total Marks: 1

The extent to which a program satisfies its specifications and fulfills the customer's mission objectives is | | | | | |

▶ Select correct option:

Integrity

Reliability

Correctness

None of given

TRUE

MIDTERM EXAMINATION

Fall 2008

CS605- Software Engineering-II (Session - 2)

Question No: 1 (Marks: 1) - Please choose one

Every task should be assigned to a specific team -----.

▶Member

▶Manager

▶Organizer

▶None of the given

Question No: 2 (Marks: 1) - Please choose one

Which one is not the Software project planning activity carried out by the project manager for estimation?

▶Software scope estimation

▶Resources requirements

▶Time requirements

▶Product Quality

Question No: 3 (Marks: 1) - Please choose one

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

▶ True

▶ False

Question No: 4 (Marks: 1) - Please choose one

While performing risk analysis, the impact of risk **can not** be measured quantitatively

▶ True(not sure)

▶ False

Question No: 5 (Marks: 1) - Please choose one

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

▶ Cost risks

▶ Schedule risks

▶ Performance risks

▶ None of the given choices

Question No: 6 (Marks: 1) - Please choose one

Proactive risk management philosophy is also some times termed as Indiana Jones school of risk management

▶true

▶false

Question No: 7 (Marks: 1) - Please choose one

The number of people required for a software project is determined

▶after an estimate of the development effort is made.

▶from an assessment of the technical complexity of the system.

▶by the size of the project

▶all of the given

Question No: 8 (Marks: 1) - Please choose one

Defect Removal Efficiency (DRE) can be measured by where **E** is **Errors found delivery** and **D** is **error found after delivery** (typically within the first year of operation)

▶DRE= E/(E+D)

▶DRE= E - (E+D)

▶DRE= E * (E+D)

▶None of the given

Question No: 9 (Marks: 1) - Please choose one

Integrity means that the software should

▶help the users to enjoy usability

▶none of the given

▶withstand the attack from a hacker

▶help the hacker to hack the system

Question No: 10 (Marks: 1) - Please choose one

function point analysis technique EO stands for _____ In

▶Export operation

▶Export output

▶External output

▶None of these

Question No: 11 (Marks: 1) - Please choose one

Which of these software characteristics are used to determine the scope of a software project?

▶context, Lines of code, function

▶context, function, communication requirements

▶information objectives, function, performance

▶communications requirements, performance, information objectives

Question No: 12 (Marks: 1) - Please choose one

_____ In
_____ a team is structured loosely and depends on individual initiative of the team members

▶random paradigm

▶closed paradigm

▶synchronous paradigm

▶open paradigm

Question No: 13 (Marks: 1) - Please choose one

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

▶closed paradigm

▶synchronous paradigm

▶random paradigm

▶open paradigm

Question No: 14 (Marks: 1) - Please choose one

_____ is the first stage of waterfall lifecycle model

▶Requirement definition

▶Operation

▶Unit testing

▶Implementation

Question No: 15 (Marks: 1) - Please choose one

_____ is not the part of software development loop.

▶Status Quo

▶Problem definition

▶Technical development

▶Task set

Question No: 16 (Marks: 1) - Please choose one

_____ is not the management part of software development activities.

▶Coding

▶Configuration Management

▶Quality Assurance

▶Project planning

MIDTERM EXAMINATION

Spring 2009

CS605- Software EngineeringII (Session - 1)

Question No: 1 (Marks: 1) - Please choose one

_____ is not the part of software development loop.

Status Quo

Problem definition

Technical development

Task set

Question No: 2 (Marks: 1) - Please choose one

The level 1 of CMM is known as

Managed

Defined

Initial

Repeatable

Question No: 3 (Marks: 1) - Please choose one

Build and Fix model is a _____ type of software development activity.

Mathematical

Perfect

Haphazard

Planned

Question No: 4 (Marks: 1) - Please choose one

According to DeMarco a good Project Manger

should be very nervous

should be very strict in official matters

should not ignore any mistake from his team members.

should have a big heart and should ignore small mistakes

Question No: 5 (Marks: 1) - Please choose one

The best project team organizational model to use when tackling extremely difficult problems is the

chief programmer team model

democratic decentralized model

controlled decentralized model

controlled centralized model

Question No: 6 (Marks: 1) - Please choose one

Which factor is the least important when choosing the organizational structure for a software team?

degree of communication desired

predicted size of the resulting program

rigidity of the delivery date

size of the project budget

Question No: 7 (Marks: 1) - Please choose one

Product and process decomposition occurs simultaneously as the project plan evolves

True

False

Question No: 8 (Marks: 1) - Please choose one

Measuring the quality and performance of a software through any mean is much better than just making a guess about it.

true

false

Question No: 9 (Marks: 1) - Please choose one

The extent to which a program satisfies its specification and fulfills the customer's mission objectives is said to be achieving the

Usability

Efficiency

Reliability

Correctness

Question No: 10 (Marks: 1) - Please choose one

Integrity means that the software should

help the users to enjoy usability

none of the given

Withstand the attack from a hacker

help the hacker to hack the system

Question No: 11 (Marks: 1) - Please choose one

Ambiguous requirements can be measured quantitatively

false

true

Question No: 12 (Marks: 1) - Please choose one

Which is used to determine the most viable option for cost estimation when the information in the “Decision tree” is complete.

$$E = 3.2 (\text{KLOC})^{1.05}$$

Expected cost = (path probability)_i x (estimated path cost)

Expected cost = (path probability)_i x (estimated path cost)

Question No: 13 (Marks: 1) - Please choose one

After building the Decision Tree, following formula is used to find the expected cost for an option. Choose the correct formula:

Expected Cost= (path probability)_i * (estimated path cost)

Expected Cost= (path probability)_i / (estimated path cost)

Expected Cost= (path probability)_i + (estimated path cost)

Expected Cost= (path probability)_i - (estimated path cost)

Question No: 14 (Marks: 1) - Please choose one

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

Cost risks

Schedule risks

Performance risks

None of the given choices

Question No: 15 (Marks: 1) - Please choose one

The Spiral model of software development is of Iterative nature

true

false

Question No: 16 (Marks: 1) - Please choose one

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

Elementary Process

External Query

External Output

Control Information

Question No: 17 (Marks: 1) - Please choose one

Empirical models are statistical models and are based upon historic data

True

False

Question No: 18 (Marks: 1) - Please choose one

An entity which defines many-to-many relationship between two or more entities is called

Associative Entity Type

Attributive Entity Type

Entity Subtype

None of these

Question No: 19 (Marks: 1) - Please choose one

Software risk impact assessment should focus on consequences affecting

performance, support, cost, schedule

planning, resources, cost, schedule

marketability, cost, personnel

business, technology, process

Question No: 20 (Marks: 1) - Please choose one

Every task or group of tasks should be associated with a project -----.

Schedule

Member

Manager

Milestone

. Several entities are always created ----- and deleted together then this is a strong indication that they should be grouped into ----- logical file/files

Together, Single

2.A -----entity is the one which have any ----- in the problem domain without some other entity.

Weak, Function

3. When more than one user interpret the same requirement in different ways then we can say that the requirements are

None of the given

4. The most famous of these models is the COCOMO - COntstructive COst MOdel – model. It also has many different versions. The simplest of these versions is given below:

$$E = 3.2 (KLOC)^{1.05}$$

4. a PM has to first come up with the schedule and then monitor the progress of the project to ensure that things are happening according to the schedule. It would not be out of place to quote Fred Brooks at this point. He says, "Projects fall behind schedule one day at a time."

5. After building the Decision Tree, following formula is used to find the expected cost for an option. Choose the correct formula:

$$\text{Expected Cost} = \sum (\text{path probability})^i * (\text{estimated path cost})$$

6. Every project has a defined number of staff members. As time allocation occurs, the project manager must ensure that no more than the allocated number of ---- people ----- have been scheduled at any given time.

7. The most important objective of any engineering activity is to produce high quality product with

limited resources and---time-----

8. interfaces are data that is shared with other programs.

9. ... **control charts**.....technique was initially developed for manufacturing processes in the 1920's by Walter Shewart.

FINALTERM EXAMINATION

Fall 2008

CS605- Software EngineeringII (Session - 1)

Ref No: 324799

Time: 120 min

Marks: 70

Question No: 1 (Marks: 1) - Please choose one

_____ The purpose of earned value analysis is to

- ▶ determine how to compensate developers based on their productivity
- ▶ provide a quantitative means of assessing software project progress
- ▶ provide a qualitative means of assessing software project progress
- ▶ set the price point for a software product based on development effort

Question No: 2 (Marks: 1) - Please choose one

The RMMM plan assists the project team in developing strategy for dealing with risk. In this context, an effective strategy must consider:

- ▶ Risk avoidance
- ▶ Risk monitoring
- ▶ Risk management and contingency plan
- ▶ All of the given choices

Question No: 3 (Marks: 1) - Please choose one

The component-based development model is

- ▶ only appropriate for computer hardware design.
- ▶ not able to support the development of reusable components.
- ▶ dependent on object technologies for support.
- ▶ not cost effective by known quantifiable software metrics.

Question No: 12 (Marks: 1) - Please choose one

If Configuration item identification is not identified, it is possible to control changes and establish records.

▶ True

▶ False

Question No: 13 (Marks: 1) - Please choose one

Availability and Reliability are concerned with

▶ Perceived quality

▶ Quantitatively measured quality

Question No: 14 (Marks: 1) - Please choose one

Software Availability can be calculated by the following equation:

▶ $\text{Availability} = (\text{MTTR}/\text{MTTF}) \times 100$

▶ $\text{Availability} = (\text{MTBF}/\text{MTTR}) \times 100$

▶ $\text{Availability} = (\text{MTTF}/\text{MTBF}) \times 100$

► Availability = (MTBF/MTTF) x 100

Question No: 15 (Marks: 1) - Please choose one

Phase Index can be calculated by the help of the following formula, where

E_i – the total number of errors uncovered during the i th step in the SE process

S_i – number of serious errors

M_i – number of moderate errors

T_i – number of minor errors

PS_i – product size at the i th step

w_s, w_m, w_t – weighting factors for serious, moderate, and minor errors

► $P_i = w_s(S_i/E_i) + w_m(M_i/E_i) + w_t(T_i/E_i)$

► $P_i = w_s(S_i/E_i) + w_m(M_i/M_i) + w_t(T_i/T)$

► $P_i = w_s(S_i/E_i) + w_m(M_i/M_i) + w_t(T_i/E_i)$

► $P_i = w_s(S_i/S) + w_m(M_i/M) + w_t(T_i/E)$

Question No: 16 (Marks: 1) - Please choose one

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

► True

▶ False

Question No: 17 (Marks: 1) - Please choose one

The goal of quality assurance is to provide management with the data needed to determine which software engineers are producing the most defects.

▶ true

▶ false

Question No: 18 (Marks: 1) - Please choose one

From the following listed software development Model, which one is an object oriented model

▶ Classical life cycle model

▶ Fountain model

▶ Spiral model

▶ Waterfall model

Question No: 19 (Marks: 1) - Please choose one

The prototyping model of software development is

▶ a reasonable approach when requirements are well defined.

- ▶ a useful approach when a customer cannot define requirements clearly.
- ▶ the best approach to use for projects with large development teams.
- ▶ a risky model that rarely produces a meaningful product.

Question No: 20 (Marks: 1) - Please choose one

_____ is a team organization where there is no permanent leader and task coordinators are appointed for short duration. Decisions on problems and approach are made by group consensus and communication among team is horizontal.

- ▶ Democratic decentralized (DD)
- ▶ Controlled decentralized (CD)
- ▶ Synchronous paradigm (SP)
- ▶ Controlled centralized (CC)

FINALTERM EXAMINATION

Fall 2009

CS605- Software EngineeringII (Session - 1)

Time: 120 min

Marks: 85

Question No: 1 (Marks: 1) - Please choose one

_____ is a team organization where there is no permanent leader and task coordinators are appointed for short duration. Decisions on problems and approach are made by group consensus and communication among team is horizontal.

- ▶ Democratic decentralized (DD)
- ▶ Controlled decentralized (CD)
- ▶ Synchronous paradigm (SP)
- ▶ Controlled centralized (CC)

Question No: 2 (Marks: 1) - Please choose one

Which of these software characteristics are used to determine the scope of a software project?

- ▶ Context, lines of code, function
- ▶ context, function, communication requirements
- ▶ information objectives, function, performance
- ▶ communications requirements, performance, information objectives

Question No: 3 (Marks: 1) - Please choose one

Function Point analysis is helpful in calculating the size of the software for _____

- ▶ Both client and software organization
- ▶ Software organization
- ▶ Client

▶ User

Question No: 4 (Marks: 1) - Please choose one

The extent to which a program satisfies its specification and fulfills the customer's mission objectives is said to be achieving the

▶ Usability

▶ Efficiency

▶ Reliability

▶ Correctness

Question No: 5 (Marks: 1) - Please choose one

A consideration of software scope must include an evaluation of all external interfaces.

▶ true

▶ false

Question No: 6 (Marks: 1) - Please choose one

When more than one user interpret the same requirement in different ways then we can say that the requirements are

- ▶ None of the given
- ▶ Incomplete
- ▶ Incorrect
- ▶ Ambiguous

Question No: 7 (Marks: 1) - Please choose one

_____ Most recent data is more relevant while assessing the progress at a given point of time.

- ▶ True
- ▶ False

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Question No: 8 (Marks: 1) - Please choose one

Which statement is correct?

- ▶ The greater the dependency between the components the greater is coupling
- ▶ The lesser the dependency between the components the greater is coupling
- ▶ The greater the dependency between the components the lesser is coupling
- ▶ None of the given

Question No: 9 (Marks: 1) - Please choose one

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

▶ Design

▶ Code

▶ Requirement

▶ Testing

Question No: 10 (Marks: 1) - Please choose one

Quality costs may be divided into costs associated with

▶ prevention, appraisal, and failure

▶ people, process, and product

▶ customers, developers, and maintenance

▶ all of the given

Question No: 11 (Marks: 1) - Please choose one

Quality costs may be divided into costs associated with

▶ prevention, appraisal, and failure

▶ people, process, and product

▶ customers, developers, and maintenance

▶ all of the given

Question No: 12 (Marks: 1) - Please choose one

Review is a type of _____ that helps preventing the bugs to move in the next stage of software development

▶ Bug seeding tool

▶ Filter

▶ Alarm

Question No: 13 (Marks: 1) - Please choose one

Following are the benefits of conducting review **except**

▶ Help in finding the size of the project =====

▶ Helps in verifying the quality of product

▶ Help in identifying where improvement is required.

▶ Helps in identifying the bugs in the work product

Question No: 14 (Marks: 1) - Please choose one

Defect Removal Efficiency can be increased by

▶ By increasing the team member in a team

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

▶ Identifying the defect in the later stages of project

▶ By performing the testing activity only

Question No: 15 (Marks: 1) - Please choose one

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

▶ Error

▶ Defect

▶ Mistake

▶ Fault

Question No: 16 (Marks: 1) - Please choose one

Review meeting is attended by the following **except**

(choose most appropriate)

- ▶ Review leader
- ▶ All reviewers
- ▶ CEO
- ▶ Product Producer

Question No: 17 (Marks: 1) - Please choose one

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

Question No: 18 (Marks: 1) - Please choose one

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

▶ All of the given options are correct.

Question No: 19 (Marks: 1) - Please choose one

Yoke is Japanese term and it means Poka

▶ Mistake Proofing

▶

Mistake Handling

▶ Mistake identification

▶

Mistake assurance

Question No: 20 (Marks: 1) - Please choose one

Availability and Reliability are concerned with

▶ Perceived quality

▶ Quantitatively measured quality

Question No: 21 (Marks: 1) - Please choose one

Reliability of a software is a

▶ functional requirement

▶ non-functional requirement

Question No: 22 (Marks: 1) - Please choose one

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

▶ Simple and cheap

▶ Sophisticated and expensive

▶ Part of Process

▶ Indication point should be near to the place where the problem occurred

Question No: 23 (Marks: 1) - Please choose one

is the requirement of the _____ level(s) of CMM

SCM

▶ First

▶ Second and later

▶ Third and later

▶ Only Second

Question No: 24 (Marks: 1) - Please choose one

If Configuration item identification is not identified, it is possible to control changes and establish records.

▶ False

▶ True

Question No: 25 (Marks: 1) - Please choose one

Incomplete Configuration identification documents may result in:

▶ Defective Product

▶ Higher Maintenance Costs

▶ Schedule Product

▶ all of the given choices are correct

Question No: 26 (Marks: 1) - Please choose one

When an Item is baselined, it becomes frozen, here frozen means, that the item can be changed only by creating an old version

▶ True

▶ False

Question No: 27 (Marks: 1) - Please choose one

Evolution Graph signifies the _____ The

▶ version relationship

▶ baseline of a particular release

▶ change control activity

▶ all of the given

Question No: 28 (Marks: 1) - Please choose one

Change Control Authority does not have the rights to permit to bring the change in the software _____ The

▶ True

▶ False

Question No: 29 (Marks: 1) - Please choose one

Object un-lock is done by

- ▶ check in
- ▶ check out
- ▶ both check-in and check-out
- ▶ none of the given

Question No: 30 (Marks: 1) - Please choose one

Requirements engineering is the basis of the contract between the developer and the client.

- ▶ True

- ▶ False

Question No: 31 (Marks: 1) - Please choose one

Following are the components of a Legacy system except:

▶ business processes

▶ system hardware

▶ marketing

▶ application software

Question No: 32 (Marks: 1) - Please choose one

Legacy system migration is usually hard. One important reason is that no proper documentation of the system is available

▶ True

▶ False

Question No: 33 (Marks: 1) - Please choose one

While assessing a legacy system for further decision, one should decide the following about the supplier
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▶ Is supplier still in existence?

▶ Is supplier still in business?

▶ Is supplier can provide support?

▶ All of the given

Question No: 34 (Marks: 1) - Please choose one

_____ The application software is assessed on the basis of following factors except

▶ Documentation

▶ Understandability

▶ Code Refactoring

▶ Test data

Question No: 35 (Marks: 1) - Please choose one

_____ We modify the internal _____ in code re-structuring

▶ interface

▶ design

▶ data structure

▶ functionality

Question No: 36 (Marks: 1) - Please choose one

_____ In _____, new user and technology requirement can also be integrated into the re-engineering effort.

▶ Backward re-engineering

▶ Forward re-engineering

▶ Business Engineering

▶ Business Process Engineering

Question No: 37 (Marks: 1) - Please choose one

_____ “A method requires lot of information from some other class” is a symptom of _____ bad smell

▶ Data clumps

▶ Lazy class

▶ Feature envy

▶ Long Method

Question No: 38 (Marks: 1) - Please choose one

_____ integrates system and software disciplines into single process improvement framework for introducing new disciplines as needs arise.

▶ SEI

▶ CMMI

▶ CMM

▶ ISO

Question No: 39 (Marks: 1) - Please choose one

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

▶ 1

▶ 0

▶ 5

▶ 6

Question No: 40 (Marks: 1) - Please choose one

Which one of the following describes the data and control to be processed, function, performance, constraints, interfaces, and reliability?

▶ Resources requirements

▶ Software scope estimation

▶ Time requirements

▶ Product Quality

Question No: 41 (Marks: 1) - Please choose one

Although there are many different models developed by different researchers for estimation, all of them share which one of the following basic structure

▶ $E = 3.2 (KLOC)^{1.05}$

▶ $E = A + B * (ev)C$

▶ $E = [LOC \times B^{0.333/P}]^3 \times (1/t^4)$

▶ none of the given

Question No: 42 (Marks: 1) - Please choose one

_____ is a user recognizable subgroup of data elements within an ILF or EIF

▶ Record element type (RET)

▶ Data Element Type

▶ External Input

▶ External Query

Question No: 43 (Marks: 1) - Please choose one

There are tools available in the market for project tracking. These tools can automatically track and manage the project replacing the need of any human being as a Project Manager.

▶ True

▶ False

Question No: 44 (Marks: 1) - Please choose one

delay in _____ path makes the whole project delayed. Any

▶ Logical

▶ Neural

▶ Physical

▶ Critical

Question No: 45 (Marks: 1) - Please choose one

The responsibilities of a Project Manager does not include

- ▶ Make a schedule of project
- ▶ Allocate tasks to the resources
- ▶ Monitoring the tasks
- ▶ Allocate the resources to manage the HR and Accounts activities

Question No: 46 (Marks: 1) - Please choose one

.....subgroups are those that the user has the option of using one or none of the subgroups during an elementary process.

▶ Optional

- ▶ Mandatory
- ▶ None of the Given
- ▶ RET

Question No: 47 (Marks: 1) - Please choose one

Process discipline is unlikely to be rigorous, but where it exists it may help to ensure that existing processes are maintained during times of stress and this is done at CMM level -----.
<http://vustudents.ning.com/>

▶ 1

▶ 4

▶ 3

▶ 2

Question No: 48 (Marks: 1) - Please choose one

The processes at ----- is focus on continually improving process performance through both incremental and innovative technological changes/improvements.

▶ Level 5

▶ Level 1

▶ Level 4

▶ Level 3

Question No: 49 (Marks: 1) - Please choose one

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

- ▶ Level 3
- ▶ Level 2
- ▶ Level 5
- ▶ Level 1

Question No: 50 (Marks: 1) - Please choose one

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

- ▶ Quickest
- ▶ Problem
- ▶ None of the given
- ▶ Slowest

FINALTERM EXAMINATION

Spring 2010

CS605- Software EngineeringII (Session - 4)

Time: 90 min

Marks: 60

Question No: 1 (Marks: 1) - Please choose one

_____ In
order to measure the design quality, if the frequency of ripple defects is too large, then it means that there
is tight coupling and hence the

- ▶ design is maintainable

▶ design is not maintainable

▶ design has completed

▶ none of the given

Question No: 2 (Marks: 1) - Please choose one

We can include following type of data in the database for creating matrix against each project **except**

▶ name of project

▶ size of project

▶ company's CEO name

▶ cost of project

Question No: 3 (Marks: 1) - Please choose one

The only reason for an estimate to be unreliable is lack of experience related to the application on the part of the estimator.

▶ true

▶ false

Question No: 4 (Marks: 1) - Please choose one

consideration of software scope must include an evaluation of all external interfaces. A

- ▶ true
- ▶ false

Question No: 5 (Marks: 1) - Please choose one

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

- ▶ Design
- ▶ Code
- ▶ Requirement
- ▶ Testing

Question No: 6 (Marks: 1) - Please choose one

Usually the performance of the organization change over-night.

- ▶ True
- ▶ False

Question No: 7 (Marks: 1) - Please choose one

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

- ▶ Maintainability
- ▶ Compliance with CMMI
- ▶ Ease of use
- ▶ Efficiency

Question No: 8 (Marks: 1) - Please choose one

Following are the benefits of conducting review **except**

- ▶ Help in finding the size of the project
- ▶ Helps in verifying the quality of product
- ▶ Help in identifying where improvement is required.
- ▶ Helps in identifying the bugs in the work product

Question No: 9 (Marks: 1) - Please choose one

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
- ▶ All of the given options are correct.

Question No: 10 (Marks: 1) - Please choose one

Reliability and Safety are same concepts with respect to software quality

- ▶ True
- ▶ False

Question No: 11 (Marks: 1) - Please choose one

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

- ▶ First
- ▶ Second and later

▶ Third and later

▶ Only Second (correct)

Question No: 12 (Marks: 1) - Please choose one

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

Question No: 13 (Marks: 1) - Please choose one

If a new version of a product is released by fixing the bugs in the previous release then it is termed as

▶ Product Update

▶ Product Upgrade

▶ Defect Removal

- ▶ Product Performance

Question No: 14 (Marks: 1) - Please choose one

Every node signifies _____ version of a release

▶ one

▶ two

▶ three

▶ four

Question No: 15 (Marks: 1) - Please choose one

Change Control Authority does not have the rights to permit to bring the change in the software The

▶ True

▶ False

Question No: 16 (Marks: 1) - Please choose one

Check in and Check out is actually one and the same process with two different names

▶ True

▶ False

Question No: 17 (Marks: 1) - Please choose one

There could be multiple GUIs to satisfy one requirement

▶ True

▶ False

Question No: 18 (Marks: 1) - Please choose one

_____ is the process of Design recovery. At this stage the documentation of the overall functionality is created.

▶ Database Engineering

▶ Reverse Engineering

▶ Refactoring

▶ Forward Engineering

Question No: 19 (Marks: 1) - Please choose one

_____ In
code restructuring, we do not change the functionality of the code

▶ True

▶ False

Question No: 20 (Marks: 1) - Please choose one

_____, new user and technology requirement can also be integrated into the re-engineering effort.

▶ Backward re-engineering

▶ Forward re-engineering

▶ Business Engineering

▶ Business Process Engineering

Question No: 21 (Marks: 1) - Please choose one

_____ process is “a set of logically related tasks performed to achieve a defined business outcome”.

▶ **Business**

▶ Software

▶ CMM

▶ ISO

Question No: 22 (Marks: 1) - Please choose one

Software refactoring is a process in which

▶ **External behavior of the system does not change**

▶ Internal behavior of the system does not change

▶ Design of the software changes

▶ Architecture of the software changes

Question No: 23 (Marks: 1) - Please choose one

The formal methods model of software development makes use of mathematical methods to

- ▶ define the specification for computer-based systems
- ▶ all of the given
- ▶ develop defect free computer-based systems
- ▶ verify the correctness of computer-based systems

Question No: 24 (Marks: 1) - Please choose one

Which one of the following describes the data and control to be processed, function, performance, constraints, interfaces, and reliability?

- ▶ Product Quality
- ▶ Software scope estimation
- ▶ Resources requirements
- ▶ Time requirements

Question No: 25 (Marks: 1) - Please choose one

Which one of the following describes the data and control to be processed, function, performance, constraints, interfaces, and reliability?

- ▶ Resources requirements
- ▶ Software scope estimation
- ▶ Time requirements
- ▶ Product Quality

Question No: 26 (Marks: 1) - Please choose one

The software plan is not a static document, it is frequently adjusted to make the project appear on track to meet all deadlines and quality targets.

- ▶ True
- ▶ False

Question No: 27 (Marks: 1) - Please choose one

The projects are classified into following categories except

- ▶ New application development
- ▶ Reengineering projects

▶ Concept development projects

▶ Marketing Development Projects

Question No: 28 (Marks: 1) - Please choose one

The processes at ----- is focus on continually improving process performance through both incremental and innovative technological changes/improvements.

▶ Level 5

▶ Level 1

▶ Level 4

▶ Level 3

Question No: 29 (Marks: 1) - Please choose one

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

▶ Level 3

▶ Level 2

▶ Level 5

▶ Level 1

Question No: 30 (Marks: 1) - Please choose one

Reliability of a software is a

- ▶ functional requirement
- ▶ non-functional requirement
- ▶ Design Requirement
- ▶ None of the given

□□□ Spring 2010

??

Question No: 1 (Marks: 1) - Please choose one

_____ A
law affirming that to continue after a certain level of performance has been reached will result in a decline in effectiveness. This law is know as _____

▶ Law of Diminishing returns

▶ Law of effectiveness

▶ Law of Saturation

▶ Law of Marketing returns

Question No: 2 (Marks: 1) - Please choose one

_____ Build and Fix model is a _____ type of software development activity.

▶ Mathematical

▶ Perfect

▶ Haphazard

▶ Planned

Question No: 3 (Marks: 1) - Please choose one

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

▶ closed paradigm

▶ synchronous paradigm

▶ random paradigm

▶ open paradigm

Question No: 4 (Marks: 1) - Please choose one

MTTC is the abbreviation of

▶ measured time to change

▶ mean time to collaborate

▶ mean time to change

▶ measure time to cope

Question No: 5 (Marks: 1) - Please choose one

While creating matrix for a set of projects, data should be collected that belongs to a similar domain

▶ true

▶ false

Question No: 6 (Marks: 1) - Please choose one

rapid application development model is

The

- ▶ Another name for component-based development.
- ▶ A useful approach when a customer cannot define requirements clearly
- ▶ A high speed adaptation of the linear sequential model.
- ▶ All of the given

Question No: 7 (Marks: 1) - Please choose one

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

- ▶ Data should be collected only from scientific projects and applications
- ▶ Data should be collected from many projects
- ▶ Data should be consistent
- ▶ Correct data should be taken

Question No: 8 (Marks: 1) - Please choose one

Quality costs may be divided into costs associated with

- ▶ prevention, appraisal, and failure

- ▶ people, process, and product
- ▶ customers, developers, and maintenance
- ▶ all of the given

Question No: 9 (Marks: 1) - Please choose one

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

▶ Error

▶ Defect

▶ Mistake

▶ Fault

Question No: 10 (Marks: 1) - Please choose one

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

- ▶ All of the given options are correct.

Question No: 11 (Marks: 1) - Please choose one

Reliability and Safety are same concepts with respect to software quality

▶ True

▶ False

Question No: 12 (Marks: 1) - Please choose one

Software configuration management is used to

▶ Manage change in the software

▶ Mangle the financials accounts in an organization

▶ Manage the administration of company

▶ All of the given

Question No: 13 (Marks: 1) - Please choose one

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

▶ First

▶ Second and later

▶ Third and later

▶ Only Second

Question No: 14 (Marks: 1) - Please choose one

_____ If a
new version of a product is released by fixing the bugs in the previous release then it is termed as

▶ Product Update

▶ Product Upgrade

▶ Defect Removal

▶ Product Performance

Question No: 15 (Marks: 1) - Please choose one

_____ The
Evolution Graph signifies the

▶ version relationship

▶ baseline of a particular release

▶ change control activity

▶ all of the given

Question No: 16 (Marks: 1) - Please choose one

The management of creeping requirements is important for the ease of

▶ maintenance

▶ development

▶ testing

▶ all of the given

Question No: 17 (Marks: 1) - Please choose one

Following are the components of a Legacy system except:

▶ business processes

▶ system hardware

▶ marketing

▶ application software

Question No: 18 (Marks: 1) - Please choose one

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

▶ Language in which system was developed become obsolete

▶ lack of consistency as different parts of the system have been developed by different teams

▶ None of these

▶ No documentation is available

Question No: 19 (Marks: 1) - Please choose one

The application software is assessed on the basis of following factors except

▶ Documentation

▶ Understandability

▶ Code Refactoring

- ▶ Test data

Question No: 20 (Marks: 1) - Please choose one

_____ The process of rediscovering the software design is called

▶ Reverse Engineering

▶ Business Engineering

▶ Business Process Engineering

▶ Forward Engineering

Question No: 21 (Marks: 1) - Please choose one

_____ In _____, new user and technology requirement can also be integrated into the re-engineering effort.

▶ Backward re-engineering

▶ Forward re-engineering

▶ Business Engineering

▶ Business Process Engineering

Question No: 22 (Marks: 1) - Please choose one

_____ A
redesigned business process must be prototyped before it is fully integrated into the business.

▶ False

▶ True

Question No: 23 (Marks: 1) - Please choose one

_____ In
_____ representation of CMMI model, consideration is given to improve selected processes areas.

▶ Staged

▶ Continuous

Question No: 24 (Marks: 1) - Please choose one

_____ The
purpose of earned value analysis is to

▶ determine how to compensate developers based on their productivity

- ▶ provide a quantitative means of assessing software project progress
- ▶ provide a qualitative means of assessing software project progress
- ▶ set the price point for a software product based on development effort

Question No: 25 (Marks: 1) - Please choose one

The software plan is not a static document, it is frequently adjusted to make the project appear on track to meet all deadlines and quality targets.

- ▶ True
- ▶ False

Question No: 26 (Marks: 1) - Please choose one

There are tools available in the market for project tracking. These tools can automatically track and manage the project replacing the need of any human being as a Project Manager.

- ▶ True
- ▶ False

Question No: 27 (Marks: 1) - Please choose one

Timeline chart is also known as the _____ chart

- ▶ Gantt
- ▶ PERT
- ▶ FREE LANCE
- ▶ None of the given

Question No: 28 (Marks: 1) - Please choose one

The processes at ----- is focus on continually improving process performance through both incremental and innovative technological changes/improvements.

▶ Level 5

▶ Level 1

▶ Level 4

▶ Level 3

Question No: 29 (Marks: 1) - Please choose one

In a complex system that will lead to muchcode to write and maintain.

▶ More

▶ None of the given

▶ Less

▶ Meaningless

Question No: 30 (Marks: 1) - Please choose one

Review is a type of _____ that helps preventing the bugs to move in the next stage of software development

▶ Bug seeding tool

▶ Filter

▶ Alarm

▶ None of the given

Software Engineering II

Quiz Solution

- 1.1) Testing is a _____ QA technique
- a) fault prevention or blocking
 - b) **fault detection**
 - c) defect prevention through error blocking
- 1.2) Inspection is a _____ QA technique
- a) fault prevention or blocking
 - b) **fault detection**
 - c) defect prevention through error blocking
- 1.3) While testing an application we can intentionally inject bugs in a software application to find the conformity with the perceived functionality.
- a) **True**
 - b) False
- 1.4) The prevention of defects being injected into the software can help in decreasing the cost of software.
- a) **True**
 - b) False
- 1.5) Inspection is a QA technique which is used to detect and remove faults in
- a) code
 - b) design
 - c) test plans
 - d) requirement specifications
 - e) **all of the given**
- 1.6) In the software development life cycle, soon the defect is detected will results in
- a) increase in cost of software
 - b) **decrease in software cost**
 - c) both a and b are correct

- 1.7) During the construction of software, defects can be prevented from being injected in software with the help of
- a) proper education and training of software engineers
 - b) use of formal methods
 - c) use of appropriate tools for testing
 - d) all of the given option are correct
- 1.8) _____ QA technique involves typically execution of software and the observation of program behavior or outcome.
- a) Inspection
 - b) Walkthroughs
 - c) Testing
 - d) Reviews
- 1.9) _____ testing verifies the correct handling of the **external functions** provided by the software
- a) Black box
 - b) White box
 - c) Gray box
- 1.10) _____ testing verifies the correct implementation of internal units, structures and relationship among them.
- a) Black box
 - b) White box
 - c) Gray box
- 1.11) The quality expectations of a user are that a software system performs useful functions that
- a) fit user needs
 - b) perform correctly over repeated period of time
 - c) both a and b
- 1.12) _____ is the most influential standard in the software engineering community today
- a) ISO 2004
 - b) ISO 2001
 - c) ISO 2000
 - d) ISO 2003

- 1.13) There is no difference between Quality Assurance and Quality Engineering practices in SDLC?
- a) True
 - b) False
- 1.14) Testing and Software Quality Assurance activities are exactly similar activities with different names
- a) True
 - b) False
- 1.15) The main idea behind Usage based reading technique is
- a) to detect as many defects as possible
 - b) to review the important artifacts of a software
 - c) to detect the defects in code only
 - d) none of the given

Quiz Solution

Software Engineering II

1. Incomplete requirements gathering can result in the _____ of the project
 - a) **failure**
 - b) reusability
 - c) success
 - d) easy maintenance
2. The root causes of project failure are
 - a) lack of user input
 - b) incomplete requirement and specification
 - c) creeping requirement
 - d) **all of the given options**
3. The template for organizing SRS given by American Department of Defense and NASA should be used for
 - a) **large and complex projects**
 - b) small project
 - c) medium size projects
 - d) none of the given
4. Traceability of requirements is helpful in the following **except**
 - a) preparing test cases
 - b) finding uses cases for a particular requirement
 - c) **managing the schedule and budget of the project**
 - d) identifying GUIs for a particular requirement
5. The Change Control Authority does not have the rights to permit the change in the software
 - a) True
 - b) **False**
6. Object un-lock is done by

- a) **check in**
- b) check out
- c) both
- d) none of these

7. In version control process if we opt **X.Y.Z** as a standard where X signifies major upgrade, Y signifies minor upgrades and Z signifies updates (bug fixing). Here _____ variable(s) can be changed at a time.

- a) **1**
- b) 2
- c) 3
- d) 4

8. Every node signifies _____ version of a release

- a) **one**
- b) two
- c) three
- d) four

9. Incomplete Configuration identification documents may result in:

- A. Defective Product
- B. Higher Maintenance Costs
- C. Schedule Product
- D. Meet Software Quality
- E. A,B,C**
- F. B,C,D

10. When an Item is base lined, it becomes frozen, here frozen means, that the item can be changed only by creating an old version

- True
- **False**

11. We can include following item(s) during configuration item identification:

- A. User Manuals and Documentations
- B. Source Code
- C. Software Requirement Specifications
- D. All of the above**

12. Poka Yoke is the name of a

- a) Japanese dish
- b) QA technique**
- c) Idiom
- d) None of the given

13. Configuration Management can be used while the project is in the _____ phase

- a) Testing
- b) Development
- c) Maintenance
- d) All of the given**

14. Poka Yoke is Japanese term and it means

- a) Mistake Proofing**
- b) Mistake Handling
- c) Mistake identification
- d) Mistake assurance

15. _____ gives the Mean time for which system remained available for use.

- MTTF**
- MTBF
- MTTR
- MTTD

Solution Quiz # 2

1. The process of rediscovering the software design is called

- a) Reverse Engineering**
- b) Business Engineering
- c) Business Process Engineering
- d) Forward Engineering

2. If you know the relationship between the use cases, classes, GUIs, test cases and other artifacts then we can say that requirements are traceable in that project.

- a) True**
- b) False

3. _____ involves the restructuring of database or database schema.

- a) **Data restructuring**
- b) Code restructuring
- c) Process restructuring
- d) Design restructuring

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

- a) Is supplier still in existence?
- b) Is supplier still in business?
- c) Is supplier can provide support?
- d) **All of the given**

5. Following factors should be considered while assessing the legacy system **except**

- a) age of hardware and software
- b) failure rate
- c) support requirement
- d) **name of the client**

6. If the complete software or some components of the software were developed from outside vendors and currently no support is available from the vendors then it becomes very easy to further maintain the legacy system

- a) True
- b) **False**

7. The application software is assessed on the basis of following factors **except**

- a) Documentation
- b) Understandability
- c) **Code Re-factoring**
- d) Test data

8. Following are the components of a Legacy system except

- a) business processes
- b) system hardware
- c) **marketing**
- d) application software

9. There are many reasons for which the legacy system become difficult to maintain **except**
- a) Lack of consistency as different parts of the system have been developed by different teams
 - b) Language in which system was developed become obsolete
 - c) **The system is of small size**
 - d) No documentation is available
10. There could be multiple GUIs to satisfy one requirement
- a) **True**
 - b) False
11. There may be one or more GUIs that are part of any good software but may not satisfy any requirement
- c) True
 - d) **False**
12. Check-in and Check-out are actually one and the same processes with two different names
- a) True
 - b) **False**
13. The need for business process re-engineering arrives because the
- a) **way to conduct business changes**
 - b) income of the company increases
 - c) company want to become popular
 - d) way of programming changes with time
14. Following is **NOT** the golden principle of Business Process Re-engineering
- a) Organize around outcomes, not tasks
 - b) Have those who use the output of the process perform the process
 - c) **Do not treat geographically information as centralized**
 - d) Incorporate information processing work into the real work that produces the raw information
15. A redesigned business process must be prototyped before it is fully integrated into the business.
- a) **True**
 - b) False

Solution Quiz # 3

Software Engineering II

1. _____ is a bad smell when a change requires lots of little changes in a lot of different classes.
 - **Short gun surgery**
 - Duplicated code
 - Large class
 - Lazy class
2. 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
 - **Divergent change**
 - Duplicated code
 - Large class
 - Lazy class
3. Software re-factoring is a process in which
 - **External behavior of the system does not change**
 - Internal behavior of the system does not change
 - Design of the software changes
 - Architecture of the software changes
4. In _____ representation of CMMI model, consideration is given to improve selected processes areas.
 - Staged
 - **Continuous**
5. _____ integrates system and software disciplines into single process improvement framework for introducing new disciplines as needs arise.
 - CMM
 - **CMMI**
 - ISO
 - SEI
6. “A method requires lot of information from some other class” is a symptom of _____ bad smell
 - Data clumps
 - **Feature envy**

- Long Method
- Lazy class

7. Large classes reduces

- **Cohesion**
- Coupling
- Consistency
- Chains

8. Following are the reasons for project failure except

- Requirements are not clear
- **The name of the software**
- Processes have not been established in the organization
- Un-realistic deadline

9. Main characteristic of _____ model is risk analysis and management

- Waterfall
- RAD
- **Spiral**
- Incremental

10. Coupling and cohesion are the _____ quality factor of the software

- external
- **internal**
- both external and internal
- none of the given

Quiz Start Time: 11:05 PM

Question # 1 of 10 (Start time: 11:05:24 PM)

Total Marks: 1

MTTF is the abbreviation of

Select correct option:

- Median time to failure
- Mean time to failure
- Mean time to forward
- Moderate time to failure

Question # 2 of 10 (Start time: 11:06:31 PM)

Total Marks: 1

Software Availability can be calculated by the following equation:

Select correct option:

- $\text{Availability} = (\text{MTTF}/\text{MTBF}) \times 100$
- $\text{Availability} = (\text{MTBF}/\text{MTTF}) \times 100$
- $\text{Availability} = (\text{MTBF}/\text{MTTR}) \times 100$
- $\text{Availability} = (\text{MTTR}/\text{MTTF}) \times 100$

Question # 3 of 10 (Start time: 11:07:07 PM)

Total Marks: 1

Mean Time To Repair (MTTR) is the

Select correct option:

- All of the given options are correct.
- Time when system remained unable for usage
- Time taken to repair the software
- Time taken to fix the error



[Click here to Save Answer & Move to Next Question](#)

3rd option

Question # 4 of 10 (Start time: 11:08:00 PM)

Total Marks: 1

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

Select correct option:

- Standard
- None of the given
- Functional
- Quality

Quality

Question # 5 of 10 (Start time: 11:09:23 PM)

Total Marks: 1

A Software Requirement Specification (SRS) is traced if the **III** of its requirements is clear.

Select correct option:

- Quality
- Slandered
- Origin
- None of the given

Origin

Question # 6 of 10 (Start time: 11:10:36 PM)

Total Marks: 1

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

Select correct option:

- Simple
- Crucial
- None of the given
- Easy

Question # 7 of 10 [Start time: 11:11:30 PM]

Total Marks: 1

In software _____, we try to analyze that hazards caused if software do not function properly.

Select correct option:

- Safety
- Maintenance
- Availability
- Integrity

Safety

Question # 8 of 10 [Start time: 11:12:52 PM]

Total Marks: 1

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

Select correct option:

- Simple and cheap
- Sophisticated and expensive
- Part of Process
- Indication point should be near to the place where the problem occurred

Question # 9 of 10 (Start time: 11:13:20 PM)

Total Marks: 1

The code that **IIII**. the requirement has been designed, written, and unit tested.

Select correct option:

- Deleted
- Implements
- None of the given
- Approved

Implements

Question # 10 of 10 (Start time: 11:14:39 PM)

Total Marks: 1

The software reengineering is a **IIII** activity.

Select correct option:

- Code
- Out dated
- Document
- Non-trivial

Question # 1 of 10 (Start time: 10:19:50 PM)

Weak documentation is a trademark of many III. applications.

Select correct option:

- Legacy
 - None of the given
 - Reverse
 - Out dated
-

Question # 2 of 10 (Start time: 10:20:28 PM)

Software configuration management is used to

Select correct option:

- All of the given options are correct
 - Manage change in the software
 - Manage the administration of company
 - Manage the financials accounts in an organization
-

Question # 3 of 10 (Start time: 10:21:38 PM)

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

Select correct option:

- Senior
- IT
- None of the given
- Line

Question # 4 of 10 (Start time: 10:22:08 PM)

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

Select correct option:

- Less than seven
- Many
- More than two
- Less than ten

Question # 5 of 10 (Start time: 10:22:42 PM)

Mean Time Between Failure (MTBF) can be calculated by

Select correct option:

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

Question # 6 of 10 (Start time: 10:23:09 PM)

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

Select correct option:

- After
- None of the given
- Along with
- Before

Question # 7 of 10 (Start time: 10:23:36 PM)

Availability and Reliability are concerned with

Select correct option:

- Quantitatively measured quality
- Perceived quality

Question # 8 of 10 (Start time: 10:25:00 PM)

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

Select correct option:

- Only Second
- First
- Second and later
- Third and later

Question # 10 of 10 (Start time: 10:27:21 PM)

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

Select correct option:

True

False

Multiple Choice Quiz

[\(See related pages\)](#)

Results Reporter

Out of 16 questions, you answered 5 correctly with a final grade of 31%


5 correct
(31%)



9 incorrect
(56%)

2
unanswered
(13%)


Your Results:

The correct answer for each question is indicated by a .

Section 2.1

1
INCORRECT

Which of the following are recognized process flow types?

- A) Concurrent process flow
 - B) Iterative process flow
 - C) Linear process flow
 - D) Spiral process flow
 - E) both a and c
- 

Section 2.1.3

2
CORRECT

Software processes can be constructed out of pre-existing software patterns to best meet the needs of a software project.

-  A) True

- B) False

Section 2.2

3
INCORRECT

Which of these are standards for assessing software processes?

- A) SEI
- B) SPICE
- C) ISO 9000
- D) ISO 9001
- E) both b and d

Section 2.3.1

4
INCORRECT

The waterfall model of software development is

- A) A reasonable approach when requirements are well defined.
- B) A good approach when a working program is required quickly.
- C) The best approach to use for projects with large development teams.
- D) An old fashioned model that is rarely used any more.

Section 2.3.2

5
CORRECT

The incremental model of software development is

- A) A reasonable approach when requirements are well defined.
- B) A good approach when a working core product is required quickly.
- C) The best approach to use for projects with large development teams.
- D) A revolutionary model that is not used for commercial products.

Section 2.3.3

6
INCORRECT

Evolutionary software process models

- A) Are iterative in nature
 - B) Can easily accommodate product requirements changes
 - C) Do not generally produce throwaway systems
 - D) All of the above
-

Section 2.3.3

7
CORRECT

The prototyping model of software development is

- A) A reasonable approach when requirements are well defined.
- B) A useful approach when a customer cannot define requirements clearly.
- C) The best approach to use for projects with large development teams.
- D) A risky model that rarely produces a meaningful product.

Section 2.3.3

8
UNANSWERED

The spiral model of software development

- A) Ends with the delivery of the software product
- B) Is more chaotic than the incremental model
- C) Includes project risks evaluation during each iteration
- D) All of the above

Section 2.3.4

9

INCORRECT

The concurrent development model is

- A) Another name for concurrent engineering.
- B) Defines events that trigger engineering activity state transitions.
- C) Only used for development of parallel or distributed systems.
- D) Used whenever a large number of change requests are anticipated.
- E) both a and b



Section 2.4.1

10

INCORRECT

The component-based development model is

- A) Only appropriate for computer hardware design.
- B) Not able to support the development of reusable components.
- C) Dependent on object technologies for support.
- D) Not cost effective by known quantifiable software metrics.



Section 2.4.2

11

UNANSWERED

The formal methods model of software development makes use of mathematical methods

to

- A)** Define the specification for computer-based systems
- B)** Develop defect free computer-based systems
- C)** Verify the correctness of computer-based systems
- D)** All of the above

Section 2.5.2

12
INCORRECT

Which of these is not one of the phase names defined by the Unified Process model for software development?

- A)** Inception phase
- B)** Elaboration phase
- C)** Construction phase
- D)** Validation phase

Section 2.6.1

13
CORRECT

Which of these is not a characteristic of Personal Software Process?

- A)** Emphasizes personal measurement of work product

- ✓ **B)** Practitioner requires careful supervision by the project manager
- C)** Individual practitioner is responsible for estimating and scheduling
- D)** Practitioner is empowered to control quality of software work products
-

Section 2.6.2

14
INCORRECT

Which of these are objectives of Team Software Process?

- A)** Accelerate software process improvement
- B)** Allow better time management by highly trained professionals
- C)** Build self-directed software teams
- D)** Show managers how to reduce costs and sustain quality
- ✓ **E)** both b and c
-

Section 2.7

15
CORRECT

Process technology tools allow software organizations to compress schedules by skipping unimportant activities.

- A)** True
- ✓ **B)** False

The correct answer for each question is indicated by a ✓.

1
INCORRECT

The linear sequential model of software development is

- ✓ A) A reasonable approach when requirements are well defined.
- B) A good approach when a working program is required quickly.
- C) The best approach to use for projects with large development teams.
- D) An old fashioned model that cannot be used in a modern context.

Feedback:

2
INCORRECT

The linear sequential model of software development is also known as the

- A) Classical life cycle model
- B) Fountain model
- C) Spiral model
- D) Waterfall model
- ✓ E) both a and d

Feedback:

3 CORRECT

The incremental model of software development is

- A) A reasonable approach when requirements are well defined.
- ✓ B) A good approach when a working core product is required quickly.
- C) The best approach to use for projects with large development teams.
- D) A revolutionary model that is not used for commercial products.

Feedback:

4
INCORRECT

The rapid application development model is

- A) Another name for component-based development.
- B) A useful approach when a customer cannot define requirements clearly.
- ✓ C) A high speed adaptation of the linear sequential model.
- D) All of the above.

Feedback:

5
INCORRECT

Evolutionary software process models

- A) Are iterative in nature
- B) Can easily accommodate product requirements changes
- C) Do not generally produce throwaway systems

- ✓ D) All of the above

Feedback:

6 CORRECT

The prototyping model of software development is

- A) A reasonable approach when requirements are well defined.
- ✓ B) A useful approach when a customer cannot define requirements clearly.
- C) The best approach to use for projects with large development teams.
- D) A risky model that rarely produces a meaningful product.

Feedback:

7
INCORRECT

The spiral model of software development

- A) Ends with the delivery of the software product
- B) Is more chaotic than the incremental model
- ✓ C) Includes project risks evaluation during each iteration
- D) All of the above

Feedback:

8 CORRECT

The concurrent development model is

- A) Another name for the rapid application development model.
- ✓ B) Often used for the development of client/server applications.
- C) Only used for development of parallel or distributed systems.
- D) Used whenever a large number of change requests are anticipated.

Feedback:

9 CORRECT

The component-based development model is

- A) Only appropriate for computer hardware design.
- B) Not able to support the development of reusable components.
- ✓ C) Works best when object technologies are available for support.
- D) Not cost effective by known quantifiable software metrics.

Feedback:

10
INCORRECT

The formal methods model of software development makes use of mathematical methods to

- A) Define the specification for computer-based systems
- B) Develop defect free computer-based systems
- C) Verify the correctness of computer-based systems

- ✓ D) All of the above

Feedback:

11
INCORRECT

Which of these is not one of the phase names defined by the Unified Process model for software development?

- A) Inception phase
- B) Elaboration phase
- C) Construction phase
- ✓ D) Validation phase

Feedback:

12
CORRECT

In the Unified Process model requirements are determined iteratively and may span more than one phase of the process.

- ✓ A) True
- B) False