CS605  Software Engineering II
Solved MCQS
From Midterm Papers

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MC100401285  Moaaz.pk@gmail.com  Mc100401285@vu.edu.pk  PSMD01

MIDTERM EXAMINATION
Spring 2010
CS605  Software Engineering II

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

- closed paradigm  (Page 32)
- synchronous paradigm
- random paradigm
- open paradigm

Question No: 3 (Marks: 1) - Please choose one
MMTC is the abbreviation of

- measured time to change
- mean time to collaborate
- mean time to change  (Page 68)
- measure time to cope

Question No: 4 (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.  (Page 19)
- All of the given
Question No: 5 (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  (Page 72)
- Data should be collected from many projects
- Data should be consistent
- Correct data should be taken

Question No: 6 (Marks: 1) - Please choose one
Quality costs may be divided into costs associated with

- prevention, appraisal, and failure  click here for detail
- people, process, and product
- customers, developers, and maintenance
- all of the given

Question No: 7 (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  click here for detail
- Mistake
- Fault

Question No: 8 (Marks: 1) - Please choose one
The ____________ model is used to overcome issues related to understanding and capturing of user requirements.

- Rapid Prototyping  (Page 17)
- Waterfall
- Build and Fix
- None of the above

Question No: 9 (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  Click here for detail
- False
Question No: 10 (Marks: 1) - Please choose one
Timeline chart is also known as the ___________ chart
► Gantt (Page 100)
► PERT
► FREE LANCE
► None of the given

Question No: 11 (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 Click here for detail
► Level 1
► Level 4
► Level 3

Question No: 12 (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 (Page 79)
► design has completed
► none of the given

Question No: 13 (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 click here for detail

Question No: 14 (Marks: 1) - Please choose one
Usually the performance of the organization change over-night.
► True
► False Click here for detail
Question No: 15 (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: 16 (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** (Page 80)
► Resources requirements
► Time requirements

Question No: 17 (Marks: 1) - Please choose one
The projects are classified into following categories except

► New application development
► Reengineering projects
► Concept development projects
► **Marketing Development Projects** (Page 96)

Question No: 18 (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: 19 (Marks: 1) - Please choose one
Reliability of a software is a

► functional requirement
► **non-functional requirement**  
► Design Requirement
► None of the given
Question No: 20 (Marks: 1) - Please choose one

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

- Mathematical
- Perfect
- **Haphazard**
- Planned

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**MIDTERM EXAMINATION**

**Spring 2009**

**CS605 - Software Engineering II (Session - 1)**

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

__________ is not the part of **software development loop**.

Status Quo
Problem definition
Technical development
**Task set** (Page 10)

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

The level 1 of CMM is known as

- Managed
- Defined
- **Initial** (Page 12)
- Repeatable

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

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

Mathematical
Perfect
**Haphazard**
Click here for detail
Planned
rep

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Muhammad Moaaz Siddiq – MCS(4th)
Moaaz.pk@gmail.com
Campus:- Institute of E-Learning & Modern Studies (IEMS) Samundari
Question No: 4  (Marks: 1) - Please choose one
According to DeMarco a good Project Manager 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  (Page 31)

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  (Page 32) 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  (Page 32)

Question No: 7  (Marks: 1) - Please choose one
Product and process decomposition occurs simultaneously as the project plan evolves True  click here for detail 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  click here for detail
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** (Page 69)

help the hacker to hack the system

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

**Ambiguous** requirements can be measured quantitatively

False

True (Page 71)

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)\text{,} \text{x (estimated path cost)}** (Page 83)

Expected cost = (path probability)\text{,} \text{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)\text{,} \text{* (estimated path cost)}** (Page 83)

Expected Cost= (path probability)\text{,} \text{/ (estimated path cost)}

Expected Cost= (path probability)\text{,} \text{+ (estimated path cost)}

Expected Cost= (path probability)\text{,} \text{- (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** (Page 87)

None of the given choices

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

The Spiral model of software development is of **Iterative** nature

True  [Click here for detail]

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 (Page 43)

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

Empirical models are statistical models and are based upon historic data.

True (Page 81)
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 (Page 47)
- 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 (click here for detail)
- 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 (Page 93)
Question No: 1 (Marks: 1) - Please choose one
Every task should be assigned to a specific team --------------.

► Member (Page 93)
► 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 (Page 80)

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
► False Click here for detail

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 (Page 87)
► None of the given choices
Question No: 6  (Marks: 1) - Please choose one
Proactive risk management philosophy is also sometimes termed as Indiana Jones school of risk management
► true
► false  (Page 84)

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.  Click here for detail
► 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= \frac{E}{E+D}  (Page 69)
► DRE= E - (E+D)
► DRE= E \times (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  (Page 69) rep
► help the hacker to hack the system

Question No: 10  (Marks: 1) - Please choose one
In function point analysis technique EO stands for
► Export operation
► Export output
► External output  (Page 49)
► 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  (Page 34)
► communications requirements, performance, information objectives

Muhammad Moaaz Siddiq – MCS(4th)
Moaaz.pk@gmail.com
Campus: Institute of E-Learning & Modern Studies (IEMS) Samundari
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 (Page 32)
- 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 (Page 32)
- synchronous paradigm
- random paradigm
- open paradigm

Question No: 14 (Marks: 1) - Please choose one
______________ is the first stage of waterfall lifecycle model

- Requirement definition (Page 15)
- 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 (Page 10) rep

Question No: 16 (Marks: 1) - Please choose one
______________ is not the management part of software development activities.

- Coding p7
- Configuration Management
- Quality Assurance
- Project planning (Page 7) not sure
CS605 – 1st quizzes (4-may-2013)

Question No: 1 of 10  (Marks: 1)  - Please choose one
Software process and product quality are controlled at ________.
level 1
initial level
level-4  (Page 12)
level-3

Question No: 2 of 10  (Marks: 1)  - Please choose one
QA is an activity performed ___________ of the software development.
at the initial stage
at the final stage
throughout  (Page 25)
at the middle

Question No: 3 of 10  (Marks: 1)  - Please choose one
______________ the ability to encourage people to create and feel creative.
Organization
Motivation
Innovation  (Page 30)
Managerial Identity

Question No: 4 of 10  (Marks: 1)  - Please choose one
Caper Jones divided software related activities into _____________ different categories.
35
40
20
25  (Page 7)

Question No: 5 of 10  (Marks: 1)  - Please choose one
By default every organization is working at _____________
level 1  (Page 12)
level 0
level 3
level 4
Question No: 6 of 10  (Marks: 1) - Please choose one
Software Engineering is the set of __________and __________to develop software.

languages, processes
classes, objects
processes, tools  (Page 4)
tools, objects

Question No: 7 of 10  (Marks: 1) - Please choose one
Software has very close relationship with __________

Biology
Physics
chemistry
Economics  (Page 5)

Question No: 8 of 10  (Marks: 1) - Please choose one
COCOMO is the classic LOC cost-estimation formula and used thousand delivered source instructions (KDSI) as his _________ of size.

LOC
milestone
unit  Click here for detail
none of given

Question No: 1 of 10  (Marks: 1) - Please choose one
________________ deadline is one of the reasons of project failure.

achievable
feasible
unrealistic  (Page 29)
realistic

Question No: 9 of 10  (Marks: 1) - Please choose one
____________ model is very sensitive to the risk.

Spiral  (Page 21)
waterfall
incremental
RAD
Question No: 10 of 10  (Marks: 1) - Please choose one

__________ is the ability to encourage technical people to produce to their best.

improvement
motivation          (Page 30)
innovation
creation

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

Caper Jones is famous researcher in the field of __________ who made a company named Software Productivity Research

Biology
Chemistry
Mathematics
Software Engineering      (Page 7)

Question No: 2 of 10  (Marks: 1) - Please choose one

Reel has defined __________ steps process to improve the chances of success.

3
4
5          (Page 35)
8

Question No: 3 of 10  (Marks: 1) - Please choose one

In __________ model user feedback is received very quickly because product is delivered in small versions.

waterfall
spiral
incremental          (Page 18)
object oriented

Question No:4 of 10  (Marks: 1) - Please choose one

___________ approach is better for the team spirits point of view.

Controlled Decentralized
Informal, interpersonal procedures
Controlled Centralized
Democratic Decentralized      (Page 32)
Question No: 5 of 10  (Marks: 1) - Please choose one
Construction activities are directly related to the __________ of the software.

Installation
risk analysis
development  (Page 8)
debugging

Question No: 6 of 10  (Marks: 1) - Please choose one
Continuous process improvement is enabled by __________ feedback from the __________
analytical, user
mathematical, user
logical, process
qualitative, process  (Page 12)

Question No: 7 of 10  (Marks: 1) - Please choose one
The major activities related to software construction are
requirement gathering, design development, coding and testing  (Page 8)
installation and training
quality assurance, configuration and planning
implementation and management

Question No: 8 of 10  (Marks: 1) - Please choose one
If requirements are uncertain, ______ will be a suitable.
Incremental
RAD
Waterfall  (Page 34)
Prototype

Question No: 9 of 10  (Marks: 1) - Please choose one
Capability maturity model (CMM) is used to judge the __________ model of an organization.
Efficiency
Performance
Productivity
Maturity  (Page 12)
Question No: 10 of 10 (Marks: 1) - Please choose one
After passing through all the stages of the software development when we deploy the new system at the user side that stage is called _______

Integration
Development
Installation
Status quo (Page 11)

Question No: 1 of 10 (Marks: 1) - Please choose one
Defects per function points are a ___ metric.

One (Page 65)
Two
Three
Four

Question No: 2 of 10 (Marks: 1) - Please choose one
_______ is the measure of how many defects are removed by the quality assurance processes before the product is shipped for operation

Defect removal efficiency (Page 69)
defect density
None of These

Question No: 3 of 10 (Marks: 1) - Please choose one
For software the total numbers of requirements are equal to _______.

Functional requirements
non-functional requirements
Functional requirements and non-functional requirements (Page 71)
None of these

Question No: 1 of 10 (Marks: 1) - Please choose one
In Capability Maturity Model (CMM), ___________ performs optimization.

level1
level 2
level3
level5 (Page 12)
Question No: 2 of 10  (Marks: 1) - Please choose one
If a software developer is going to develop software for a nuclear reactor which factor(s) will be more important?

- cost effective
- performance
- reliability
- both b and c  (Page 6)

Question No: 3 of 10  (Marks: 1) - Please choose one
Capability Maturity Model (CMM) has _________ levels.

- 4
- 5  (Page 12)
- 3
- 2

Question No: 4 of 10  (Marks: 1) - Please choose one
Fred Brook is a famous software engineer who wrote a great book related to software engineering named ____________.

- A Mythical Man Month  (Page 7)
- A Mathematical Man
- Software Methodologies
- None of the above

Question No: 5 of 10  (Marks: 1) - Please choose one
W5HH Principle consists of seven _________.

- Answers
- Questions  (Page 35)
- points
- steps

Question No: 6 of 10  (Marks: 1) - Please choose one
In Rational Unified Process (RUP) horizontal dimension represents the _________ aspect of the process.

- Dynamic  (Page 24)
- Static
- Both
Question No: 7 of 10 (Marks: 1) - Please choose one
There are two very different approaches to cost estimation. The older approach is called LOC estimation, since it is ………….. on initially estimating the number of lines of code that will need to be developed for the project.

Based  Click here for detail
Good
None of given
Bad

Question No: 8 of 10 (Marks: 1) - Please choose one
Task coordinators are appointed for short period of time in ______________ organization team structure.
Select correct option:
  controlled centralized
democratic decentralized  (Page 32)
controlled decentralized
formal impersonal approach

Question No: 9 of 10 (Marks: 1) - Please choose one
________ model is opposite to waterfall model.

Spiral
Prototype  Click here for detail
Synchronize and Stabilize
Incremental

Question No: 10 of 10 (Marks: 1) - Please choose one
MOI model of leadership was developed by _____

Weinberg  (Page 30)
Newton
Don Carlos

Question No: 1 of 10 (Marks: 1) - Please choose one
Each process define certian deliverables known as the ________.

work products  (Page 12)
softwares
final products
items
Question No: 2 of 10  (Marks: 1)  - Please choose one
____________ procedures include QA activities, design and code review, and status meetings.

Formal, interpersonal  (Page 33)
Informal, interpersonal
Controlled centralized
Formal, impersonal

Question No: 3 of 10  (Marks: 1)  - Please choose one
According to DeMarco a good team leader should have only _________ characteristics.

Four  (Page 31)
five
three
seven

Question No: 4 of 10  (Marks: 1)  - Please choose one
Synchronize and Stabilize model is adopted by ________________.
Apple Macintosh
Microsoft  (Page 19)
Sun Java System
Netsol Technologies

Question No: 5 of 10  (Marks: 1)  - Please choose one
Extreme programming model is very effective when requirement are very ______ and the project scope is very _________.

Changing, limited  (Page 23)
Changing, unlimited
None of these
Quiz No.1

Question No: 1 of 10 (Marks: 1) - Please choose one
Miscommunication among project staff is one of the reasons of the failure of the software project.

True (Page 28)
False

Question No: 2 of 10 (Marks: 1) - Please choose one
___________ model is a haphazard type of software development activity.

Water fall
Incremental
Prototyping
Build and Fix

Click here for detail

Question No: 3 of 10 (Marks: 1) - Please choose one
Water fall model is a document driven model.

True (Page 16)
False

Question No: 4 of 10 (Marks: 1) - Please choose one
___________ paradigm, structures a team loosely and depends on individual initiative of the team members

Closed
Random (Page 32)
Open
Synchronous

Question No: 5 of 10 (Marks: 1) - Please choose one
Spiral model has ____________ dimensions.

2 (Page 20)
3
4
None of the above
Question No: 6 of 10  (Marks: 1) - Please choose one
The ___________ model of software development is a good approach when core product is required quickly.

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

Question No: 7 of 10  (Marks: 1) - Please choose one
In ____________________ team organization, there is no permanent leader rather there are task coordinators.

- Controlled Decentralized
- Democratic Decentralized  (Page 32)
- Controlled Centralized
- Synchronous paradigm

Question No: 8 of 10  (Marks: 1) - Please choose one
______________ is an Object Oriented model.

- Spiral
- Water fall
- Incremental
- Fountain  (Page 23)

Question No: 9 of 10  (Marks: 1) - Please choose one
______________ model is developed keeping in mind the element of risk in the development of software

- Spiral  (Page 20)
- RAD
- Incremental
- Synchronize and Stabilize

Question No: 10 of 10  (Marks: 1) - Please choose one
Vision phase in a software process focuses on __________.

- What
- Why  (Page 14)
- How
- Change
Question No: 1 of 10  (Marks: 1) - Please choose one
Rapid application development is another form of _____________.

Incremental model  (Page 19)
Prototyping model
Linear Sequential model
None of the above

Question No: 2 of 10  (Marks: 1) - Please choose one
_____________________ phase in a software process focuses on change.

Vision
Maintenance  (Page 14)
Definition
Development

Question No: 3 of 10  (Marks: 1) - Please choose one
_____________________ model is adopted by Microsoft

RAD
Build and Fix
Spiral
Synchronize and Stabilize  (Page 19)

Question No: 4 of 10  (Marks: 1) - Please choose one
____________________ teams generate more and better solutions than individuals and are most useful for complex problems

Decentralized  (Page 32)
Centralized

Question No: 5 of 10  (Marks: 1) - Please choose one
The ____________ model of software development is a good approach when core product is required quickly.

Incremental  click here for detail
Linear Sequential
Prototyping
None of the above
Question No: 6 of 10  (Marks: 1) - Please choose one
The ___________ model of software development is a useful approach when a customer cannot define requirements clearly.

prototyping  
Water fall
RAD
Build and Fix

Question No: 7 of 10  (Marks: 1) - Please choose one
_____________ model has a major drawback in that the delivered product may not fulfill the customer's requirements.

Water fall  (Page 17)
Build and Fix
Prototyping
Integrated water fall and prototyping

Question No: 8 of 10  (Marks: 1) - Please choose one
MOI model of leadership stands for

Motivation, Operationalize, Integration
Misunderstanding, Object, Ideas
Motivation, Organization, Innovation  (Page 30)
Miscommunication, Organization, Invention

Question No: 9 of 10  (Marks: 1) - Please choose one
____________ activity is performed throughout software production
Select correct option:

Maintenance
Development
Analysis
Quality Assurance  (Page 25)

Question No: 10 of 10  (Marks: 1) - Please choose one
In ______________ model the product is developed without any proper design and specifications.

Water fall
Build and Fix  (Page 15)
None of the above

Question No: 1 of 10  (Marks: 1)  - Please choose one
Software project management focuses on the four P’s: These are

People, Product, Process, Problem

People, Product, Process, Project  (Page 29)
People, Passion, Process, Project
People, Passion, Planning, Project

Question No: 2 of 10  (Marks: 1)  - Please choose one
The ________________ dimension in rational unified process model represents the dynamic aspect of the process.

Horizontal  (Page 24)
Angular
Vertical
Regular

Question No: 3 of 10  (Marks: 1)  - Please choose one
_____________ dimension of Spiral model represents the cumulative cost to date

Radial  (Page 20)
Angular
Horizontal
circular

Question No: 4 of 10  (Marks: 1)  - Please choose one
The important feature of extreme programming is the concept of __________________.

Feedback
Risk assessment
Pair programming  (Page 23)
Requirement elicitation

Question No: 5 of 10  (Marks: 1)  - Please choose one
In software development __________________ is performed at the end of each phase.

Verification  (Page 26)
Validation

Question No: 6 of 10  (Marks: 1)  - Please choose one
Unrealistic deadline is NOT one of the reasons of project failure. 
True  
False  (Page 29)

**Question No: 7 of 10  (Marks: 1) - Please choose one**
Software _____ relates individual software measures to provide a normalized view.

Measure  
Metric  (Page 65)  
Plan  
Attribute

**Question No: 8 of 10  (Marks: 1) - Please choose one**
We need to employ some statistical techniques and plot the results -------------. These are known as statistical control techniques.

Graphically  (Page 74)  
Automatically  
Manually  
Personaly

**Question No: 9 of 10  (Marks: 1) - Please choose one**
Quality can be measured if we measure the _____ of the product.

correctness  
maintainability  
integrity and usability  
All of the given options  (Page 68)

**Question No: 10 of 10  (Marks: 1) - Please choose one**
___________ help in finding the matrix to be stable or unstable

Control chart  (Page 75)  
Directed Graph  
Cyclic chart  
Base line graph
Quiz No.2

Question No: 1 of 10  (Marks: 1)  - Please choose one
Several entities are always created -------------</br>and deleted together then this is a strong indication that they</br>should be grouped into -------------</br>logical file/files.

- Together, Single  (Page 48)
- All of the given
- Together, Double
- Together, Multiple

Question No: 2 of 10  (Marks: 1)  - Please choose one
------------------
give you a better insight into the state of the process or product.

- Metrics  (Page 66)
- Efficiency
- Reliability
- Usability

Question No: 3 of 10  (Marks: 1)  - Please choose one
Determination of the -------------</br>is a pre-requisite of all sorts of estimates, including, resources, time, and</br>budget.

- software scope  (Page 80)
- software Risk
- software Quality
- software Management

Question No: 4 of 10  (Marks: 1)  - Please choose one
When more than one user interpret the same requirement in different ways then we can say that the</br>requirements are

- None of the given
- Incomplete
- Ambiguous  Click here for detail
- Incorrect
Question No: 5 of 10  (Marks: 1) - Please choose one
The extent to which a program satisfies its specifications and fulfills the customer’s mission objectives is __________

- Integrity
- Reliability
- Correctness *(Page 67)*
- None of given

Question No: 6 of 10  (Marks: 1) - Please choose one
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 __________

- Less than one hour  click here for detail
- Less than two hour
- Less than five hour
- Less than ten hour

Question No: 7 of 10  (Marks: 1) - Please choose one
Metrics to assess the quality of the analysis models and the corresponding software specification were proposed __________

- Ricado in 1993
- Davis in 1990
- Davis in 1993 *(Page 71)*

Question No: 8 of 10  (Marks: 1) - Please choose one
This chart is then used to develop the individual control chart is called statistical control techniques.

- Yes *(Page 77)*
- No

Question No: 9 of 10  (Marks: 1) - Please choose one
Which statement is correct?

- 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

Question No: 10 of 10  (Marks: 1)  - Please choose one
Function/Test matrix is a type of
Interim Test report
Final test report
Project status report  click here for detail
Management report

Question No: 1 of 10  (Marks: 1)  - Please choose one
The most important objective of any engineering activity is to produce high quality product with limited resources and__________________

  Time  (Page 66)
  Persons
  Cost
  Metrics

Question No: 2 of 10  (Marks: 1)  - Please choose one
Extent to which access to software or data by unauthorized persons can be controlled and called ..............

  None of given
  Efficiency
  Reliability
  Integrity  (Page 67)

Question No: 3 of 10  (Marks: 1)  - Please choose one
The amount of computing resources required by a program to perform its function is ......................

  Efficiency  (Page 67)
  Integrity
  Reliability
  None of given

Question No: 4 of 10  (Marks: 1)  - Please choose one
_________ technique was initially developed for manufacturing processes in the 1920’s by Walter Shewart.

  Upper Control Line
  Control chart  (Page 75)
  CMP
  Quality
Question No: 5 of 10 (Marks: 1) - Please choose one
In measuring Software Process Quality by using control charts, if the gap between the defects reported and defects fixed is increasing, then it means

- The product is in unstable condition. (Page 78)
- The product is ready for shipment
- The product is in stable condition.
- None of the above

Question No: 6 of 10 (Marks: 1) - Please choose one
A --------------entity is the one which have any ----------- in the problem domain without some other entity.

- Strong, Role*
- All of the given
- Weak, Function
- None of the Given (Page 47)

Ref: - A weak entity is the one which does not have any role in the problem domain without some other entity.

Question No: 7 of 10 (Marks: 1) - Please choose one
ILF is a -------------- identifiable group of logically control formations -------------- the boundary the application.

- user, within (Page 42)
- user, without
- All of the given
- user, along

Question No: 8 of 10 (Marks: 1) - Please choose one
In context of moving range and individual control charts, UNPL stands for:
- Universal Natural Process Line
- Universal Natural Process Limit
- Upper Natural Process Limit (Page 77)
- Upper Natural Process Line

Question No: 9 of 10 (Marks: 1) - Please choose one
Effort required to test a program to ensure that it performs its intended function __________

- Testability page (Page 68)
- Bug fixing
Question No: 10 of 10 (Marks: 1) - Please choose one
The extent to which a program can be expected to perform its intended function with required precision is called ______

Usability
Reliability (Page 67)
Portability
Maintainability

Question No: 1 of 10 (Marks: 1) - Please choose one
Which one of the following is NOT a useful indicator of software quality?

Correctness
Code size (Page 67)
Maintainability
Integrity
Usability

Question No: 2 of 10 (Marks: 1) - Please choose one
Which one of the following does not belong to a strategy for dealing with risk?

Risk avoidance
Security risk assessment (Page 89)
Risk monitoring
Risk management and Contingency planning

Question No: 3 of 10 (Marks: 1) - Please choose one
Three categories of risks are
Business risks, personnel risks, budget risks
Project risks, technical risks, business risks (Page 86)
Planning risks, technical risks, personnel risks
Management risks, technical risks, design risks

Question No: 4 of 10 (Marks: 1) - Please choose one
The software reengineering process model includes restructuring activities for which of the following work items?

Code
Documentation
Data
Question No: 5 of 10 (Marks: 1) - Please choose one
One graphical technique for determining whether a process exhibits out-of-control change behavior is a.

Control chart (Page 75)
Fishbone diagram
Pareto diagram
Process diagram

Question No: 6 of 10 (Marks: 1) - Please choose one
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. (Page 80)

Question No: 7 of 10 (Marks: 1) - Please choose one
FAST is the abbreviation of

Facilitated Application Specification Technology
Facilitated Application Specification Technique (Page 80)
Facilitated Application Specialization Technique
None of the above option

Question No: 8 of 10 (Marks: 1) - Please choose one
Defect per unit function point is a

Measure
Metric (Page 65)
Measurement
None of the above

Question No: 9 of 10 (Marks: 1) - Please choose one
Chart that is used to develop the individual control chart is called statistical control techniques.

Yes (Page 75)
No

Question No: 10 of 10 (Marks: 1) - Please choose one
____________ Is the set of tools and techniques used to develop software?
Question No: 1 of 10  (Marks: 1) - Please choose one
The characteristics of well developed software are________

Reliability
User friendliness
Cost effective
All of the above    (Page 5)

Question No: 2 of 10  (Marks: 1) - Please choose one
SE is a Balancing act

Yes  (Page 5)
No

Question No: 3 of 10  (Marks: 1) - Please choose one
_______ Is the process of balancing among different characteristics of software?

Software Testing
Software Development  (Page 6)
Software Management
Software Risk Analysis

Question No: 4 of 10  (Marks: 1) - Please choose one
_______ Is directly related to development of the software

Management
Construction    (Page 8)
Coding
None of the above

Question No: 5 of 10  (Marks: 1) - Please choose one
__________ Basic project management processes established to track cost, schedule and functionality. Has
the necessary process discipline in place to repeat earlier successes Related to projects

Level 1
Level 2    (Page 12)
Level 3
Level 4

Question No: 6 of 10  (Marks: 1) - Please choose one
Change control is not necessary if a development group is making use of an automated project database tool.

**True**    **False**

**Question No: 7 of 10  (Marks: 1) - Please choose one**
Which one of the following principles/techniques is NOT software projects scheduling?

Interdependency identification
Time allocation
Effort validation
**Function point analysis**  (Page 93)
Milestone definition

**Question No: 8 of 10  (Marks: 1) - Please choose one**
Which one of the following is the 4th level of the SEI Capability Maturity Model?

Initial or ad hoc
Optimizing
**Managed**  (Page 12)
Defined
Repeatable

**Question No: 9 of 10  (Marks: 1) - Please choose one**
Which one of the following activities does not belong to Risk Mitigation, Monitoring, and Management Plan?

Risk Projection  (Page 89)
Risk Mitigation
Risk avoidance
Risk Management and Contingency Planning

**Question No: 10 of 10  (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.**    Click here for detail
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.

**Question No: 1 of 10  (Marks: 1) - Please choose one**
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
Question No: 2 of 10  (Marks: 1) - Please choose one
Defect prevention is defined as:
- Avoiding defect insertion
- Avoiding defect insertion, but fixing errors when reported
- Finding and fixing errors after insertion  
  [click here for detail]
- Finding and fixing errors after release
- Not reporting errors

Question No: 3 of 10  (Marks: 1) - Please choose one
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  
  [click here for detail]
- Request 50% more time than estimated

Question No: 4 of 10  (Marks: 1) - Please choose one
The linear sequential model of software development is also known as the
- Classical life cycle model  
  [click here for detail]
- Fountain model
- Spiral model
- Chaos model

Question No: 5 of 10  (Marks: 1) - Please choose one
Doubling the size of your software project team is guaranteed to cut project completion time in half.
- True
- False  
  [click here for detail]

Question No: 6 of 10  (Marks: 1) - Please choose one
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  
  [click here for detail]
Question No: 7 of 10 (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  Click here for detail

Question No: 8 of 10 (Marks: 1) - Please choose one
__________ QA technique involves typically execution of software and the observation of program behavior or outcome.

a) Inspection
b) Walkthroughs
c) Testing  Click here for detail
d) Reviews

Question No: 9 of 10 (Marks: 1) - Please choose one
__________ testing verifies the correct handling of the external functions provided by the software

a) Black box  Click here for detail
b) White box
c) Gray box

d) Reviews

Question No: 10 of 10 (Marks: 1) - Please choose one
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  Click here for detail

d) Both

Question No: 1 of 10 (Marks: 1) - Please choose one
Incomplete requirements gathering can result in the __________ of the project

a) failure  (Page 12)
b) reusability
c) success
d) easy maintenance

d) easy maintenance

Question No: 2 of 10 (Marks: 1) - Please choose one
The root causes of project failure are
a) lack of user input
b) incomplete requirement and specification

c) creep requirement  

d) all of the given options

Question No: 3 of 10  (Marks: 1) - Please choose one
Incomplete Configuration identification documents may result in:

Defective Product
Higher Maintenance Costs
Schedule Product
Meet Software Quality

A,B,C  Click here for detail

B,C,D

A,B,D

A,B,C,D

Question No: 4 of 10  (Marks: 1) - Please choose one

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

Short gun surgery  Click here for detail

Duplicated code
Large class
Lazy class

Question No: 5 of 10  (Marks: 1) - Please choose one

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  Click here for detail

Duplicated code
Large class
Lazy class

Question No: 6 of 10  (Marks: 1) - Please choose one

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  Click here for detail

Question No: 7 of 10  (Marks: 1) - Please choose one

____________ integrates system and software disciplines into single process improvement framework for introducing new disciplines as needs arise.
Question No: 8 of 10  (Marks: 1) - Please choose one
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
- Unrealistic deadline

Question No: 9 of 10  (Marks: 1) - Please choose one
Main characteristic of ____________ model is risk analysis and management

- Waterfall
- RAD
- Spiral
- Incremental

Question No: 10 of 10  (Marks: 1) - Please choose one
In ________________, there is both vertical and horizontal communication.

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

Question No: 1 of 10  (Marks: 1) - Please choose one
The prevention of defects being injected into the software can help in decreasing the cost of software.

a) True
b) False

d) ____________ testing verifies the correct implementation of internal units, structures and relationship among them.
a) Black box
b) **White box** [click here for details]
c) Gray box

**Question No: 4 of 10  (Marks: 1) - Please choose one**

1.14) Testing and Software Quality Assurance activities are exactly similar activities with different names
a) True
b) False (Page 69)