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)
- Water fall
- 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  click here for detail
► 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  Click here for detail
► Level 1

Question No: 19 (Marks: 1) - Please choose one
Reliability of a software is a
► functional requirement
► non-functional requirement  Click here for detail
► 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**  
  [Click here for detail]
► Planned

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**MIDTERM EXAMINATION**

Spring 2009

CS605- Software Engineering II (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**  (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

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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.

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

\[ \text{Expected cost} = (\text{path probability})_i \times (\text{estimated path cost}) \quad \text{(Page 83)} \]

Expected cost = (path probability)\text{i} \times (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:

\[ \text{Expected Cost} = (\text{path probability})_i \times (\text{estimated path cost}) \quad \text{(Page 83)} \]

Expected Cost = (path probability)\text{i} \times (estimated path cost)

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

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

Expected Cost = (path probability)\text{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  (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= E/(E+D)  (Page 69)
► 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  (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
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
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, unlimited  (Page 23)
Changing, limited
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  
- Controlled Centralized  
- Synchronous paradigm

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

- Spiral  
- Water fall  
- Incremental  
- Fountain

**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  
- 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  
- 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)
Prototyping
None of the abov

**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
integration 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 ----------- and deleted together then this is a strong indication that they should be grouped into ----------- 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 ......................is a pre-requisite of all sorts of estimates, including, resources, time, and 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 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 in 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
**Level 2  (Page 12)\nLevel 3\nLevel 4\n
**Question No: 2 of 10  (Marks: 1)  - Please choose one\nDefect 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\nWhat 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\nThe 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\nDoubling 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\nWhich 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 a and b

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

e) lack of user input
b) incomplete requirement and specification
c) creep requirement  Click here for detail
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  (Page 28)
Processes have not been established in the organization
Un-realistic deadline

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

Waterfall
RAD
Spiral  Click here for detail
Incremental

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

Controlled decentralized (CD)  Page 32
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

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

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