**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 [click here for detail]
- Law of effectiveness
- Law of Saturation
- Law of Marketing returns

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

________ is not the construction part of software development activities.

- Requirement gathering
- Testing
- **Configuration Management** (Page 8)
- Coding

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

Basic project management process are established at __________ level of CMM

- Chaotic
- Initial
- Level 1
- Repeatable (Page 12)
Question No: 4  (Marks: 1) - Please choose one
The projects usually don’t fail due to

► ambiguous/incomplete requirements
► changing customer requirements
► the fact that company was not CMM certified  (Page 28 - 29)
► failure in project management

Question No: 5  (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)  (Page 32)
► Controlled decentralized (CD)
► Synchronous paradigm (SP)
► Controlled centralized (CC)

Question No: 6  (Marks: 1) - Please choose one
Which of these is not a valid reason for measuring software processes, products, and resources?

► to price them  Click here for detail
► to improve them
► to characterize them
► to evaluate them

Question No: 7  (Marks: 1) - Please choose one
Integrity can be measured by the following formula

► integrity= (1−threat) x (1−security)
► integrity= Σ (1+threat) + (1−security)
► integrity= Σ[(1−threat) x (1−security)]  (Page 69)
► integrity= Σ (1−threat) - (1−security)

Question No: 8  (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: 9  ( Marks: 1 ) - Please choose one
An ____________ is a user identifiable group of logically related data or control information maintained within the boundary of the application

- Internal logical file (ILF)  (Page 42)
- External Interface file (EIF)
- External input
- External Query

Question No: 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: 11  ( Marks: 1 ) - Please choose one
Testing and Software Quality Assurance activities are exactly similar activities with different names

True
False  (Page 69)

Question No: 12  ( 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: 13  ( Marks: 1 ) - Please choose one
Usually the performance of the organization change over-night.

- True
- False  Click here for detail
Question No: 14  ( Marks: 1 ) - Please choose one
Following are the implicit requirement(s) of software?

► Efficiency
► Ease of use
► Maintainability
► All of the given  (Page 106)

Question No: 15  ( Marks: 1 ) - Please choose one
If an error related to requirements is identified in Coding, so this error will be considered as an error in ________ phase.

► Design
► Code
► Requirement
► Testing

Question No: 16  ( Marks: 1 ) - Please choose one
While developing the software if the bug is caught then it is termed as

► Error
► Defect  (not sure)
► Fault
► Mistake

Question No: 17  ( Marks: 1 ) - Please choose one
Following are the types of Formal Technical Reviews except

► Inspection
► JAD  (Page 110)
► Walkthrough

Question No: 18  ( Marks: 1 ) - Please choose one
The Review participants should not focus on

► Work product
► Weaknesses of the developer  (Page 113)
► Time lines
► Review agenda
Question No: 19  ( Marks: 1 ) - Please choose one
Review meeting is attended by the following except

► Review leader
► All reviewers
► CEO  (Page 112)
► Product Producer

Question No: 20  ( Marks: 1 ) - Please choose one
Which statement is true in the light of Pareto principle?

► 80% of defects are caused by 20% of mistakes  (Page 114)
► 20% of defects are caused by 80% of mistakes

Question No: 21  ( Marks: 1 ) - Please choose one
Reliability and Safety are same concepts with respect to software quality

► True  (Page 117)
► False

Question No: 22  ( Marks: 1 ) - Please choose one
The prevention of defects being injected into the software can help in decreasing the cost of software.

True
False

Question No: 23  ( Marks: 1 ) - Please choose one
Poka Yoke is the name of a

► Japanese dish
► QA technique  (Page 118)
► Idiom
► None of the given

Question No: 24  ( 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  (Page 122)
► Product Upgrade
► Defect Removal
► Product Performance
Question No: 25  (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: 26  (Marks: 1) - Please choose one
In the software development life cycle, soon the defect is detected will results in

- increase in cost of software
- decrease in software cost
- both a and b are correct

Question No: 27  (Marks: 1) - Please choose one
________ testing verifies the correct implementation of internal units, structures and relationship among

- Black box
- White box  

- Gray box

Question No: 28  (Marks: 1) - Please choose one
The template for organizing SRS given by American Department of Defense and NASA should be used for

- none of the given
- large and complex projects
- small project
- medium size projects

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

- True
- False  

(Click here for details)
Question No: 30  ( Marks: 1 ) - Please choose one
There may be one or more GUIs that are part of any good software but may not satisfy any requirement

- True
- False

Question No: 31  ( Marks: 1 ) - Please choose one
Following are the components of a Legacy system except:

- business processes
- system hardware
- marketing  (Page 134)
- application software

Question No: 32  ( 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  (Page 134)

Question No: 33  ( 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  (Page 140)
- Business Engineering
- Business Process Engineering

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

- Cohesion  (Page 143)
- Coupling
- Consistency
- Chains

Question No: 35  ( Marks: 1 ) - Please choose one
Level __________ is the lowest capability level of CMMI in Continuous representation

- 1
- 0  (Page 169)
- 5
- 6
Question No: 36  (Marks: 1) - Please choose one  
In __________ representation of CMMI model, consideration is given to improve selected processes areas.

► Staged  (Page 169)  
► Continuous

Question No: 37  (Marks: 1) - Please choose one  
Empirical models are statistical models and are based upon historic data

True  (Page 81)  
False

Question No: 38  (Marks: 1) - Please choose one  
Error tracking provides a quantitative means of assessing the quality of the individuals implementing a software product.

► True  
► False

Question No: 39  (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: 40  (Marks: 1) - Please choose one  
Two tools for computing critical path and project completion times from activity networks are

► CPM and PERT  (Page 100)  
► DRE and SQA  
► FP and LOC  
► ASD and BSD
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  (Page 79)
► design has completed
► none of the given

Question No: 2  (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: 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  click here for detail

Question No: 4  (Marks: 1) - Please choose one
A consideration of software scope must include an evaluation of all external interfaces.

► true  (Page 80)
► false

Question No: 5  (Marks: 1) - Please choose one
Software quality is conformance to ______________

Explicitly stated functional and non functional requirements  (Page 106)
Explicitly documented development standards
Implicit characteristics that all the professional software are expected to have
All of the given options
Question No: 6  (Marks: 1) - Please choose one
The boundary time defines the following parameter(s) for a project

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

All of the given options  (Page 100)

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  (Page 106)
- 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  (Page 116)
- All of the given options are correct.

Question No: 10  (Marks: 1) - Please choose one
In order to use the Pert and CPM, which one of the following is not required?

- Decomposition of tasks - also known as the work breakdown structure (WBS)
- Teams communication mode detail  (Page 100)
- Estimation of effort
- Inter dependencies

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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  (Page 119)

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  (Page 120)

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

critical project Measure
Critical Path Method  (page 100)
Common Project Measure
Critical Planning Model

Question No: 14  (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: 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  (Page 124)

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  (Page 124)
Question No: 17  ( Marks: 1 ) - Please choose one
There could be multiple GUIs to satisfy one requirement
► True  (Page 37)
► 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  (Page 139)
► Refactoring
► Forward Engineering

Question No: 19  ( Marks: 1 ) - Please choose one
In code restructuring, we do not change the functionality of the code
► True  (Page 139)
► False

Question No: 20  ( Marks: 1 ) - Please choose one
Earned Value Analysis (EVA) is a ______ technique for assessing the progress of a project. Select correct option:
Qualitative
Quantitative  (page 102)
Subjective
None of the given options

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  (Page 141)
► 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  (Page 142)
► 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  click here for detail
► 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  (Page 80)
► Resources requirements
► Time requirements

Question No: 25  (Marks: 1) - Please choose one
A significant SQA plan, among others, should include:
Select correct option:
Resources required for project  (Page 177)
Error tracking procedures
Phases required in application development process
None of the given options

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  Click here for detail
► 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  (Page 96)

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.
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 ————.

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

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Question No: 1 (Marks: 1) - Please choose one
Which of the following is NOT one of the degrees of rigor?

Casual
Structured
Strict
TSS  (Page 66)
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
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 (Marks: 1) - Please choose one
MTTC is the abbreviation of
► measured time to change
► mean time to collaborate
► mean time to change  (Page 68)
► 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  (Page 72)
► false

Question No: 6 (Marks: 1) - Please choose one
_________ is one of the techniques to prepare project schedule once we have defined "task network"

Program evaluation and review techniques (PERT)  (Page 100)
Critical Communication path method (CCPM)
System resource negotiation method (SRNM)
Strategic Schedule Development technique (SSDT)

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  (Page 72)
► 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  click here for detail
► 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  click here for detail
► Mistake
► Fault

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

Feasibility of technical requirement
Fetched Technical Requirement
Formal Technical Review  (Page 109)
None of the given options

Question No: 11 (Marks: 1) - Please choose one
SQA is an umbrella activity in which following activities are performed EXCEPT

Review
Testing
Project Planning
Inspection  (Page 177)

Question No: 12 (Marks: 1) - Please choose one
Software configuration management is used to

► Manage change in the software  (Page 119)
► Manage the financials accounts in an organization
► Manage the administration of company
► All of the given
Question No: 13 (Marks: 1) - Please choose one
Which of the following is not TRUE about "Error Tracking"?

Error tracking can be used to estimate the progress of the project.
We track errors in work products to assess the status of a project.

During "Error Tracking", we may also need the historical data from similar projects. (Page 104)
All of the given options.

Question No: 14 (Marks: 1) - Please choose one
SQA is an activity in which testing is performed only

True
False (Page 177)

Question No: 15 (Marks: 1) - Please choose one
Schedule Performance Index (SPI) is equal to
BCWP / BCWS (Page 102)
BCWP * BCWS
BCWP + BCWS
BCWP - BCWS

Question No: 16 (Marks: 1) - Please choose one
BCWS for a task i will be equal to:

Risks appeared in task i
Effort (person-days etc) for task I (Page 102)
Resource deficiency for task i
None of the given options

Question No: 17 (Marks: 1) - Please choose one
if: E = Errors found before shipment D = Errors found during operation Then Defect Removal Efficiency (DRE) is equal to:

DRE = E + (E+D)
DRE = E - (E+D)
DRE = E * (E+D)
DRE = E / (E+D) (Page 104)

Question No: 18 (Marks: 1) - Please choose one
Quality assurance helps management in providing the necessary data about:

Product quality (Page 106)
Errors/bugs left
Errors/bugs highlighted
Defect reports
Question No: 19 ( Marks: 1 ) - Please choose one
The progress on a project at any given point in time can be calculated by:

Adding all the BCWS till that point for all tasks  (Page 102)
Multiplying all the BCWS till that point for all tasks
Adding BCWS and EVA for all tasks till that point
None of given options

Question No: 20 ( Marks: 1 ) - Please choose one
The process of rediscovering the software design is called

► Reverse Engineering  (Page 139)
► Business Engineering
► Business Process Engineering
► Forward Engineering

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

Output, Control and Input   Click here for detail
Overflow of Certain Inputs
Overflow of Certain Indexes
None of given options

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  (Page 141)

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

The list of the resources that may be needed for future activities.
The chain of tasks that determines the duration of the project. (Page 100)
The list of the deficient resources, project is suffering from.
None of the given options.

Question No: 24 ( Marks: 1 ) - Please choose one
BAC stands for:
Budgeted Analysis Cost
Budget And Cost
Budget at compilation
Budget at Completion  (Page 102)
Question No: 25 (Marks: 1) - Please choose one
The first task in concept development project is to:

- Determine the cost of the concept
- Determine the resources required for the concept
- **Determine the scope of the concept** (Page 99)
- Determine the test cases for concept

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

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

Question No: 27 (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: 28 (Marks: 1) - Please choose one
The more you refine the tasks, the more you can:

- Estimate task with accuracy
- Conclude about scope with accuracy
- Schedule the project with accuracy
- All of the given options

Question No: 29 (Marks: 1) - Please choose one
In a complex system that will lead to much ..........code to write and maintain.

- More (Page 159)
- None of the given
- Less
- Meaningless
Question No: 30 ( Marks: 1 ) - Please choose one
Which of the following is NOT one of the tasks in concept scoping:

Identify needs and benefits
Define desired output/control/input
Define the function/behavior
Identify the ambiguous requirements  (Page 100)

Question No: 1 ( Marks: 1 ) - Please choose one
Defining a [Task Network] helps in defining

The resources required for project
Third party tool required for project
**Sequence in which activities will be performed**  (Page 99)
None of these

Question No: 2 ( 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: 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  (Page 38)
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  
**click here for detail**

Question No: 5  (Marks: 1) - Please choose one
What activity/activities, we can perform to identify the needs and benefits of a task?

Establish project statement
Identify needs and project constraints
All of these

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

Budgeted cost of whole System
**Budgeted cost of work schedule**  (Page 102)
None of the given options

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

Normalized value of budgeted cost
Overall expected cost of the project (anticipated cost)
**Budgeted cost of work performed so far**  (Page 102)
Overall cost of the project (calculated after completion of project)

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
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: 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
Debugging
Security

Question No: 11 (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: 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 (Page 109)
► Alarm

Question No: 13 (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

اس نافذہ گھیرے گیا ہے اور ابتدائی گھیرے دکھایا گیا ہے
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
__________give you a better insight into the state of the process or product

Metrics (Page 66)
Efficiency
Reliability
Usability

Question No: 16 (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: 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** (Page 113)

Question No: 18 (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: 19 (Marks: 1) - Please choose one
Poka Yoke is Japanese term and it means

- Mistake Proofing (Page 118)
- Mistake Handling
- Mistake identification
- Mistake assurance

Question No: 20 (Marks: 1) - Please choose one
we need to employ some statistical techniques and plot the result -------------. This is known as statistical control techniques.

Graphically (Page 74)
automatically
manually
personally

Question No: 21 (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: 22 (Marks: 1) - Please choose one
Which is not correct in the context of Poka-Yoke technique?

- Simple and cheap
- Sophisticated and expensive (Page 118)
- Part of Process
- Indication point should be near to the place where the problem occurred

Question No: 23 (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: 24  (Marks: 1)  - Please choose one
If Configuration item identification is not identified, it is possible to control changes and establish records.

► False  (Page 121)
► True

Question No: 25  (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: 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  (Page 72)
► False

Question No: 27  (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: 28  (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: 29  (Marks: 1) - Please choose one
Object un-lock is done by

► check in  (Page 125)
► 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  Written as a contract between client and contractor

Question No: 31  (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: 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  (Page 134)

Question No: 33  (Marks: 1) - Please choose one
While assessing a legacy system for further decision, one should decide the following about the supplier

► Is supplier still in existence?
► Is supplier still in business?
► Is supplier can provide support?
► All of the given  (Page 137)

Question No: 34  (Marks: 1) - Please choose one
The application software is assessed on the basis of following factors except

► Documentation
► Understandability
► Code Refactoring  (Page 137)
► Test data
Question No: 35  (Marks: 1) - Please choose one
We modify the internal ______________ in code re-structuring
► interface
► design  (Page 139)
► data structure
► functionality

Question No: 36  (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: 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  (Page 143)
► 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  Click here for detail
► CMM
► ISO

Question No: 39  (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: 40  (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: 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

- $E = 3.2 \text{ (KLOC)}^{1.05}$
- $E = A + B \times (ev)^C$ (Page 81)
- $E = [\text{LOC} \times B0.333/P]^3 \times (1/t4)$
- none of the given

Question No: 42  (Marks: 1) - Please choose one
A _____________ is a user recognizable subgroup of data elements within an ILF or EIF

- Record element type (RET) (Page 46)
- Data Element Type
- External Input
- External Query

Question No: 43  (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: 44  (Marks: 1) - Please choose one
Any delay in _____ path makes the whole project delayed.

- Logical
- Neural
- Physical
- Critical [Click here for detail]
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
► All these options (Page 28)

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 (Page 46)
► 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 ---------.

► 1
► 4
► 3
► 2 (Page 172)

Question No: 48 (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: 49 (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: 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 the __________ because you avoid debugging

► Quickest (Page 163)
► Problem
► None of the given
► Slowest

FINALTERM EXAMINATION
Fall 2008
CS605- Software EngineeringII (Session - 1)

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 (Page 102)
► 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 (Page 89)

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. (SE-PRESSMAN, 70)
► not cost effective by known quantifiable software metrics.
Question No: 4 (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.

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

\[ \text{Expected cost} = (\text{path probability}) \times (\text{estimated path cost}) \]  

Question No: 5 (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:

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

Expected Cost = (path probability) / (estimated path cost)
Expected Cost = (path probability) + (estimated path cost)
Expected Cost = (path probability) - (estimated path cost)

Question No: 6 (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  

Question No: 7 (Marks: 1) - Please choose one
Every task or group of tasks should be associated with a project --------------.

Schedule
Member
Manager
Milestone  

Question No: 8 (Marks: 1) - Please choose one
Every task should be assigned to a specific team --------------.

► Member  
► Manager
► Organizer
► None of the given choices
Question No: 9  (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: 10  (Marks: 1)  - Please choose one
Configuration Item identification involves:

► Identifying the structure of the s/w system
► **Uniquely identify individual components**
► Uniquely identifying various revisions
► All of the given

Question No: 11  (Marks: 1)  - Please choose one
Incomplete Configuration identification documents may result in:

► Schedule Product
► **all of the given choices are correct**  Click here for detail
► Defective Product
► Higher Maintenance Costs

Question No: 12  (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: 13  (Marks: 1)  - Please choose one
Proactive risk management philosophy is also some times termed as Indiana Jones school of risk management

► true
► **false**  (Page 84)

Question No: 14  (Marks: 1)  - Please choose one
Software Availability can be calculated by the following equation:

► Availability = (MTTR/MTTF) x 100
► Availability = (MTBF/MTTR) x 100
► **Availability = (MTTF/MTBF) x 100**  (Page 116)
► 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
Ei – the total number of errors uncovered during the ith step in the SE process
Si – number of serious errors
Mi – number of moderate errors
Ti – number of minor errors
PSi – product size at the ith step
ws, wm, wt – weighting factors for serious, moderate, and minor errors

► PIi = ws(Si/Ei) + wm(Mi/Ei) + wt(Ti/Ei) (Page 115)
► PIi = ws(Si/Ei) + wm(Mi/Mi) + wt(Ti/T)
► PIi = ws(Si/Ei) + wm(Mi/Mi) + wt(Ti/Ei)
► PIi = ws(Si/S) + wm(Mi/M) + wt(Ti/E)

Question No: 16  (Marks: 1) - Please choose one
The higher the Error Index, the higher will be the Defect Removal Efficiency

► True  (Page 115)
► 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  Click here for detail

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  (Page 23)
► 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.  Click here for detail
► 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
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: 1 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: 2 of 10 (Marks: 1) - Please choose one
ILF is a -------------- identifiable group of logically control informations -------------- the boundary of the application.

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

Question No: 3 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)
Together, Multiple
Together, Double
All of the given

Question No: 4 of 10 (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: 5 of 10 (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: 6 of 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: 7 of 10  (Marks: 1) - Please choose one
Ambiguous requirements can be measured quantitatively

False
True  (Page 71)

Question No: 8 of 10  (Marks: 1) - Please choose one
The Spiral model of software development is of Iterative nature

True  Click here for detail
false

Question No: 9 of 10  (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: 10 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: 1 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: 2 of 10  (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: 3 of 10  (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: 4 of 10  (Marks: 1) - Please choose one
The level 1 of CMM is known as

Managed
Defined
Initial  (Page 12)
Repeatable

Question No: 5 of 10  (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: 6 of 10  (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

اتمكمیت کر کمک کردن و گفتگو کردن با کسی که تمایل داشت که کار را کرد
Question No: 7 of 10 (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: 8 of 10 (Marks: 1) - Please choose one
Product and process decomposition occurs simultaneously as the project plan evolves

True click here for detail
False

Question No: 9 of 10 (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: 10 of 10 (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: 1 of 10 (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: 2 of 10 (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: 3 of 10  (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: 4 of 10  (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)

► \[ \text{DRE} = \frac{E}{E+D} \]  
► \[ \text{DRE} = \frac{E}{E+D} \]  
► \[ \text{DRE} = E - (E+D) \]  
► \[ \text{DRE} = E \times (E+D) \]  
► None of the given

Question No: 5 of 10  (Marks: 1) - Please choose one
In function point analysis technique EO stands for

► Export operation  
► Export output  
► External output  
► None of these

Question No: 6 of 10  (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: 7 of 10  (Marks: 1) - Please choose one
______________ is the first stage of waterfall lifecycle model

► Requirement definition  
► Operation  
► Unit testing  
► Implementation
Question No: 8 of 10  (Marks: 1) - Please choose one
__________ is not the management part of software development activities.

► Coding  
► Configuration Management
► Quality Assurance
► Project planning  (Page 7)  not sure

Question No: 9 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: 10 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: 1 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: 2 of 10  (Marks: 1) - Please choose one
Caper Jones divided software related activities into ____________ different categories.

35
40
20
25  (Page 7)
Question No: 3 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: 4 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: 5 of 10  ( Marks: 1 ) - Please choose one
Software has very close relationship with __________

Biology
Physics
chemistry
Economics  (Page 5)

Question No: 6 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: 7 of 10  ( Marks: 1 ) - Please choose one
____________________ deadline is one of the reasons of project failure.

achievable
feasible
unrealistic  (Page 29)
realistic
Question No: 8 of 10 (Marks: 1) - Please choose one
__________ model is very sensitive to the risk.

Spiral (Page 21)
waterfall
incremental
RAD

Question No: 9 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: 10 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: 1 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: 2 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: 3 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: 4 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: 5 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: 6 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: 7 of 10 (Marks: 1) - Please choose one
If requirements are uncertain, ______ will be a suitable.

Incremental
RAD
Waterfall (Page 34)
Prototype
Question No: 8 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: 9 of 10  (Marks: 1)  - Please choose one
After passing though 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: 10 of 10  (Marks: 1)  - Please choose one
Defects per function points are a ___ metric.

One  (Page 65)  
Two  
Three  
Four

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
Task coordinators are appointed for short period of time in ____________ organization team structure.

- controlled centralized
- democratic decentralized
- controlled decentralized
- formal impersonal approach

---

Spiral
Prototype
Synchronize and Stabilize
Incremental

---

MOI model of leadership was developed by ______

- Weinberg
- Newton
- Don Carlos

---

Each process define certain deliverables known as the ________ .

- work products
- softwares
- final products
- items

---

__________ procedures include QA activities, design and code review, and status meetings.

- Formal, interpersonal
- Informal, interpersonal
- Controlled centralized
- Formal, impersonal

---

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

- True
- False
Question No: 4 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: 5 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: 6 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

Question No: 7 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: 8 of 10  (Marks: 1) - Please choose one
Water fall model is a document driven model.

True  (Page 16)
False

Question No: 9 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
Spiral model has _____________ dimensions.

2  
3  
4  
None of the above

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

Incremental  
Linear Sequential  
Prototyping  
None of the above

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

Controlled Decentralized  
Democratic Decentralized  
Controlled Centralized  
Synchronous paradigm

_________________ is an Object Oriented model.

Spiral  
Water fall  
Incremental  
Fountain

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

Spiral  
RAD  
Incremental  
Synchronize and Stabilize
Question No: 5 of 10  (Marks: 1) - Please choose one
Vision phase in a software process focuses on __________.

What
Why  (Page 14)
How
Change

Question No: 6 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: 7 of 10  (Marks: 1) - Please choose one
_______________ phase in a software process focuses on change.

Vision
Maintenance  (Page 14)
Definition
Development

Question No: 8 of 10  (Marks: 1) - Please choose one
______________ model is adopted by Microsoft

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

Question No: 9 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: 10 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: 1 of 10  (Marks: 1) - Please choose one
The ____________ model of software development is a useful approach when a customer cannot define requirements clearly.

Prototyping  click here for detail
Water fall
RAD
Build and Fix

Question No: 2 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: 3 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: 4 of 10  (Marks: 1) - Please choose one
________________ activity is performed throughout software production

Maintenance
Development
Analysis
Quality Assurance  (Page 25)

Question No: 5 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 above
Question No: 6 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: 7 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: 8 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: 9 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: 10 of 10  (Marks: 1)  - Please choose one
In software development ________________ is performed at the end of each phase.

Verification  (Page 26)
Validation

Question No: 1 of 10  (Marks: 1)  - Please choose one
Unrealistic deadline is NOT one of the reasons of project failure.
True
False  (Page 29)
Question No: 2 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: 3 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: 4 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: 5 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: 6 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
All of the given options click here for detail
Question No: 7 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: 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?

Engineering
Software Engineering  (Page 4)

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  Click here for detail

Question No: 7 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: 8 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: 9 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)
Level 3
Level 4

Question No: 10 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: 1 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: 2 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: 3 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: 4 of 10 (Marks: 1) - Please choose one

________ QA technique involves typically execution of software and the observation of program behavior or outcome.

- Inspection
- Walkthroughs
- Testing
- Reviews

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

________ testing verifies the correct handling of the external functions provided by the software

- Black box
- White box
- Gray box

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

The quality expectations of a user are that a software system performs useful functions that

- fit user needs
- perform correctly over repeated period of time
- both a and b

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

Incomplete requirements gathering can result in the __________ of the project

- failure
- reusability
- success
- easy maintenance

Question No: 8 of 10 (Marks: 1) - Please choose one

The root causes of project failure are

- lack of user input
- incomplete requirement and specification
- creep requirement
- all of the given options
Question No: 9 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: 10 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: 1 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: 2 of 10    ( Marks: 1 )   - Please choose one

Main characteristic of ______________ model is risk analysis and management

Waterfall
RAD
Spiral    Click here for detail
Incremental