FINALTERM EXAMINATION
Spring 2010
CS504- Software Engineering - I (Session - 2)

Question No: 1   (Marks: 1)   - Please choose one
The first step in any OOA process model is to_____

- ► build an object-relationship model
- ► define collaborations between objects
- ► **elicit customer requirements**   (A P R A C T I T I O N E R ' S A P P R O A C H   Page603)
- ► select a representation language

Question No: 2   (Marks: 1)   - Please choose one
A necessary supplement to transform or transaction mapping needed to create a complete architectural design is _____.

- ► entity relationship diagrams
- ► the data dictionary
- ► **processing narratives for each module**   (A P R A C T I T I O N E R ' S A P P R O A C H   Page422)
- ► test cases for each module

Question No: 3   (Marks: 1)   - Please choose one
What types of errors are missed by black-box testing and can be uncovered by white-box testing?

- ► behavioral errors
- ► **subtle logic errors**   **Click here for detail**
- ► performance errors
- ► input error

Question No: 4   (Marks: 1)   - Please choose one
Which test criteria should be applied in a phase of testing?

- ► functional validity
- ► interface integrity
- ► correctness
- ► **all of the given**   (A P R A C T I T I O N E R ' S A P P R O A C H   Page522)

Question No: 5   (Marks: 1)   - Please choose one
The hardest single part of building a software system is deciding precisely ----------- to build.

► **what**   **(Page 17)**
► How
► When
► Why

Question No: 6   (Marks: 1)   - Please choose one
In sequence Diagrams objects are organized in a ----------line

► **horizontal**   **(Page 106)**
► vertical
► horizontal and vertical
► non of the above

Question No: 7   (Marks: 1)   - Please choose one
Every view is potentially Hierarchical in this regard which of the view are Hierarchical ?

► Functioanl View
► Development View
► *Concurrency view*
► **All of given**   **(Page 125)**

Question No: 8   (Marks: 1)   - Please choose one
Like analysis models, many different kinds of -----------models are developed
► **Architectural**   **(Page 126)**
► System
► Design
► Logical

Question No: 9   (Marks: 1)   - Please choose one
Idea behind zero install architecture is to develop a system where no installation on the ---------- is needed.

► **Client side**   **(Page 130)**
► Server Side
► Client & Server Side
► Non of the all

Question No: 10   (Marks: 1) - Please choose one
The construction is used to avoid ---------------- errors.
► **compilation**   **(Page 157)**
► runtime
► design time
► non of them

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Question No: 11   (Marks: 1)   - Please choose one
All comments should be written in-----------

    ► **English   (Page 162)**
    ► French
    ► C++
    ► JAVA

Question No: 12   (Marks: 1)   - Please choose one
One of the Guidelines to avoid common mistakes is to never use --------- except for declaration

    ► **,   (Page 176)**
    ► ;
    ► =
    ► ‖

Question No: 13   (Marks: 1)   - Please choose one
The order in which bytes of one word are stored is ----------- dependent

    ► **Hardware   (Page 181)**
    ► Software
    ► language
    ► system

Question No: 14   (Marks: 1)   - Please choose one
**Verification and validation are the processes in which we check a product against its --------- and the ----
----------- of the users who will be using it**

    ► **specifications, expectations   (Page 192)**
    ► statements, expectations
    ► specifications , arguments
    ► statements, arguments

Question No: 15   (Marks: 1)   - Please choose one
**Two tests are considered to be equivalent if it is believed that: if one discovers a defect, the other
probably will too, and if one does not discover a defect, --------------------------------.**

    ► the other probably may
    ► non of them
    ► **the other probably won't either   (Page 199)**
    ► the other probably will

Question No: 16   (Marks: 1)   - Please choose one
It was lady named ------------------   who actually coin the term "bug" for the fiest time.

   ► Elisay Chistopher
   ► **Admiral Grace Hopper   (Page 213)**
   ► Ana Nicholson
   ► Jane Hopper

Question No: 17   (Marks: 1)   - Please choose one
The first "bug" was actually a moth, which flew through an open window and into one of the Mark ---------'s relays.

   ► **II   (Page 213)**
   ► I
   ► III
   ► IV

Question No: 18   (Marks: 1)   - Please choose one
Symptoms of logical errors are ------------------------------

   ► code is misbehaving
   ► The program doesn't crash, but the flow of program takes odd branches through the code.
   ► Results are the opposite
   ► Output looks strange,
   ► **all of the given   (Page 218)**

Question No: 19   (Marks: 1)   - Please choose one
First hand accounts of the problem are always useful in Debugging process.

   ► **True   (Page 225)**
   ► False

Question No: 20   (Marks: 1)   - Please choose one
Software architecture elements are further divided into categories which in total are -----------

   ► 2
   ► **3   (Page 122)**
   ► 4
   ► 5

Question No: 21   (Marks: 1)   - Please choose one
Establishing responsibilities for objects includes
   ► Generalization Relationships
   ► Specialization Relationships
   ► all of the above
   ► **identifying Association relationships   (Page 101)**

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Question No: 22   (Marks: 1)   - Please choose one
Source files can have the extension ---------------------

    ► *c++* .
    ► .*C*
    ► .cpp
    ► **all of the given   (Page 155)**

Question No: 23   (Marks: 1)   - Please choose one
Be very careful when you use functions with side effects – functions that change the values of the
----

    ► **parameters (Page 176)**
    ► variables
    ► constants
    ► None of given

Question No: 24   (Marks: 1)   - Please choose one
Which of the following is not a characteristic of software?

    ► **Software is tangible**
    ► A change to a piece of code may implicitly affect the functions of the rest of the code.
    ► Software is configurable.
    ► Software does not wear and tear.

Question No: 25   (Marks: 1)   - Please choose one
Which of the following is a fact finding method?

    ► Site visits
    ► **Prototyping**
    ► Study of similar systems
    ► All of given

Seven common fact-finding methods (Sampling, Research, Observation, Questionnaires, Interviews, Prototyping, Joint Requirements Planning) are introduced as a means to discover requirements.

Question No: 26   (Marks: 1)   - Please choose one
The statements given below are associated with system development, testing and maintenance. Identify the correct statement from among them:

► Some of the activities in the implementation phase are building individual system components, writing of programs and development of user interfaces.
► The post implementation review is performed to see that the computer system is working.
► None of Given
► System development phase consists of a development phase and an implementation phase.

Question No: 1   (Marks: 1)   - Please choose one
Quantitative methods for assessing the quality of proposed architectural designs are readily available.

    ► True
    ► **False**   http://highered.mcgraw-hill.com/sites/0072853182/student_view0/chapter10/multiple_choice_quiz.html

Question No: 2   (Marks: 1)   - Please choose one
A decision table should be used_____

    ► to document all conditional statements
    ► to guide the development of the project management plan
    ► only when building an expert system
    ► **when a complex set of conditions and actions appears in a component**   **Click here for detail**

Question No: 3   (Marks: 1)   - Please choose one
Test cases should be designed long before testing begins.

    ► **True**   **(A PRACTITIONER'S APPROACH   Page 467)**
    ► False

Question No: 4   (Marks: 1)   - Please choose one
Which of the following are characteristics of testable software?

    ► observability
    ► simplicity
    ► stability
    ► **all of the given**   **(A PRACTITIONER'S APPROACH   Page 469)**

Question No: 5   (Marks: 1)   - Please choose one
Comparison testing is typically done to test two competing products as part of customer market analysis prior to product release.

    ► True
    ► **False**   **Click here for detail**

Question No: 6   (Marks: 1)   - Please choose one
By collecting software metrics and making use of existing software reliability models it is possible to develop meaningful guidelines for determining when software testing is done.

    ► **True**   **Click here for Detail**
    ► False

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

Configuration reviews are not needed if regression testing has been rigorously applied during software integration.

    ► True
    ► False   <u>Click here for detail</u>

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

A change becomes ------------- because of close presence of data and fucntions

    ► **Localized**   **(Page 81)**
    ► Private
    ► Global
    ► Accessible

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

Requirement engineering mainly deals with the -------------- of the system

    ► **definition phase**   **(Page 16)**
    ► development phase
    ► maintenance
    ► non of the above

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

40-60% of all defects found in software projects can be traced back to poor -----------

    ► **Requirements   (Page 17)**
    ► Design
    ► Coding
    ► Testing

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

In the N-Tire Architecture the idea is to enhance scalability and -------------- by distributing both the data and the application using multiple server machines.

    ► **Performance   (Page 131)**
    ► Efficiency
    ► Usability
    ► non of the all

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

MVC pattern was based on the --------------- pattern.
    ► **Observer**   **(Page 140)**
    ► Structural
    ► Behavioral
    ► Non of them

Question No: 13   (Marks: 1)   - Please choose one
Classes should be declared in individual header files with the file name matching the ---------- name.

► **class**   **(Page 155)**
► method
► object
► non of the all

Question No: 14   (Marks: 1)   - Please choose one
Unit testing is roughly equivalent to ---------- testing for hardware in which each chip is tested thoroughly after manufacturing

► Circuit level
► **Chip Level**   **(Page 207)**
► component level
► system level

Question No: 15   (Marks: 1)   - Please choose one
Software should be tested more like hardware, with Built-in self testing: such that each unit can be tested -------------

► freely
► **independently**   **(Page 207)**
► dependtly
► completely

Question No: 16   (Marks: 1)   - Please choose one
A system ------------- is the period in which tremendous pressure is on developers end to fix the problem and make the system running again

► Uptime
► **Downtime**   **(Page 214)**
► Currentime
► futuretimr

Question No: 17   (Marks: 1)   - Please choose one
Which one of the given below is not a symptom of memory overrun?

► Program crashes quite regularly after a given routine is called, that routine should be examined for a possible overrun condition.
► If the routine in question does not appear to have any such problem the most likely cause is that another routine, called in the prior sequence, has already
trashed variables or memory blocks.
► Checking the trace log of the called routines leading up to one with the problem will often show up the error.
► **Compiler warnings.**   **(Page 220)**

Question No: 18 (Marks: 1) - Please choose one
Software architecture elements are further divided into categories which in total are -----------

    ► 2
    ► **3**   **(Page 122)**   **rep**
    ► 4
    ► 5

Question No: 19 (Marks: 1) - Please choose one
Three tier architecture contains ------------- layers

    ► Presentation
    ► Application
    ► Database
    ► **All of the above**   **(Page 131)**

Question No: 20 (Marks: 1) - Please choose one
1. Variables should be initialized where they are declared and they should be declared in the --------------
scope possible.

    ► **Smallest**   **(Page 158)**
    ► largest
    ► medium
    ► None of the given

Question No: 21 (Marks: 1) - Please choose one
------------------ are two important tools that can help in managing and mastering the complexity of a
program.

    ► **abstraction and encapsulation** **(Page 170)**
    ► abstraction and Inheritence
    ► abstraction and Polymarhphism
    ► None of given

Question No: 22 (Marks: 1) - Please choose one
Which of the following is a/are tool used in requirement analysis?

    ► Flow Graphs
    ► **Data Flow Diagrams (not sure)**
    ► Activity Networks
    ► Module Dependency Diagrams

Question No: 23   (Marks: 1)   - Please choose one
Consider the following comment. "The software which I bought won't run on windows and when it runs I can't use WORD at the same time". Which of the following do you think are violated by the newly bought software?

► dependability, interchangeability
► **platform independence, interoperability**
► reliability, dependency
► interoperability, reliability

Question No: 24   (Marks: 1)   - Please choose one
……………… is a diagramming technique used to identify the types of objects in the system and the static relationships that exist among them?

► Class Diagram
► Document flow diagrams
► Data flow diagrams
► **Flow charts**

Question No: 25   (Marks: 1)   - Please choose one
Which of the following interaction style best suit the design of an interface for visually impaired users?

► **direct manipulation**   (A P R A C T I T I O N E R ' S A P P R O A C H   Page **469**)
► direct manipulation
► natural language
► command line

Question No: 26   (Marks: 1)   - Please choose one
Which of the following testing involve purely black box testing?

► unit testing, beta testing
► acceptance testing, interface testing
► beta testing, acceptance testing
► **integration testing, interface testing**

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Question No: 1   (Marks: 1)   - Please choose one
What are the three generic phases of software engineering?

► **definition, development, support**   (A P R A C T I T I O N E R ' S A P P R O A C H   Page **96**)
► what, how, where
► programming, debugging, maintenance
► analysis, design, testing

Question No: 2   (Marks: 1)   - Please choose one
In the context of requirements analysis, partitioning results in the elaboration of data, function, or behavior.

- ► **True**   **Click here for detail**
- ► False

Question No: 3   (Marks: 1)   - Please choose one
Quantitative methods for assessing the quality of proposed architectural designs are readily available.
- ► True
- ► **False**   **Click here for detail**

Question No: 4   (Marks: 1)   - Please choose one
In refining the DFD during transaction mapping it is unnecessary to create a PSPEC since only the CSPEC is relevant to this type of architectural style.
- ► True
- ► **False**   **click here for detail**

Question No: 5   (Marks: 1)   - Please choose one
In transaction mapping the first level factoring results in the_____

- ► creation of a CFD
- ► **derivation of the control hierarchy**   **Click here for detail**
- ► distribution of worker modules
- ► refinement of the module view

Question No: 6   (Marks: 1)   - Please choose one
Variable names must be in mixed case starting with upper case.
- ► True
- ► **False**   **(Page 150)**

Question No: 7   (Marks: 1)   - Please choose one
Class variables should be declared public. This concept violates which of the following.
- ► Information hiding
- ► Encapsulation
- ► **Information hiding and Encapsulation**   **(Page 158)**
- ► None of given

Question No: 8   (Marks: 1) - Please choose one
 Real-time applications add a new and potentially difficult element to the testing mix

- ► performance
- ► reliability
- ► security
- ► **time**   **(Page 498)**

Question No: 9 (Marks: 1) - Please choose one
Top-down integration testing has as it's major advantage(s) that

- ► low level modules never need testing
- ► **major decision points are tested early** **Click here for detail**
- ► no stubs need to be written
- ► none of the given

Question No: 10 (Marks: 1) - Please choose one
Configuration reviews are not needed if regression testing has been rigorously applied during software integration.

- ► True
- ► **False** **Click here for detail**

Question No: 11 (Marks: 1) - Please choose one
isAuthorized, assess Performance, get item for UPC, get cashier for number, are the examples of

- ► **Services** **(Page 102)**
- ► Attributes
- ► Links
- ► Non of the above

Question No: 12 (Marks: 1) - Please choose one
the *development* view describes the -----------organization of the software in its development environment,

- ► **Static** **(Page 122)**
- ► Dynamic
- ► Still
- ► Static & Dynamic

Question No: 13 (Marks: 1) - Please choose one
-------------- being the first pure Object Oriented language in which observer pattern was used in implementing its Model View Controller

- ► **Smalltalk** **(Page 140)**
- ► PASCAL
- ► JAVA
- ► C++

Question No: 14 (Marks: 1) - Please choose one
Hungarian Notation was first discussed by Charles Simonyi of-------------------
- ► **Microsoft.** **(Page 149)**
- ► Oracle
- ► Apple Macintosh
- ► Non of the all

Question No: 15   (Marks: 1)   - Please choose one
The language does not specify whether -------------- is signed or unsigned.

▶ **char   (Page 181)**
▶ integer
▶ double
▶ constant

Question No: 16   (Marks: 1)   - Please choose one
A number of invisible execution paths can exist in simple code in a language that allows --------------

▶ **exceptions   (Page 185)**
▶ defects
▶ errors
▶ all of them

Question No: 17   (Marks: 1)   - Please choose one
Bugs Fixing is done by which of the teams in Software Development lifecycle?
▶ **Development Team   (Page 196)**
▶ Testing Team
▶ Analysis & Design Team
▶ Process Team

Question No: 18   (Marks: 1)   - Please choose one
Software Bugs have multiple names, Which one of the below is not the name of Software Bugs --------------

▶ Bugs
▶ Defects
▶ Errors
▶ **Mistakes   (Page 213)**

Question No: 19   (Marks: 1)   - Please choose one
Symptoms of logical errors are ------------------------------

▶ code is misbehaving
▶ The program doesn't crash, but akes odd branches through the code.
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First hand accounts of the problem are always useful in Debugging process.

▶ **True   (Page 225)**
▶ False

Question No: 21   (Marks: 1)   - Please choose one
In the debugging process a stack trace is a very useful tool.

► **True   (Page 226)**
► False

Question No: 22   (Marks: 1)   - Please choose one
Establishing responsibilities for objects includes
► Generalization Relationships
► Specialization Relationships
► all of the above
► **identifying Association relationships   (Page 101)**

Question No: 23   (Marks: 1)   - Please choose one
Stakeholders are different people who would be interested in the -----------

► **Software   (Page 24)**
► System
► Product
► All of the given

Question No: 24   (Marks: 1)   - Please choose one
A ----------- is a code that explains itself without the need of comments and extraneous documentation

► **Self documenting code   (Page 147)**
► Self telling Code
► Self Documenting Design
► None of the given

Question No: 25   (Marks: 1)   - Please choose one
**1. Variables should be initialized where they are declared and they should be declared in the --------------
scope possible.**

► **Smallest   (Page 158)**
► largest
► medium
► None of the given

Question No: 26   (Marks: 1)   - Please choose one
**Which of the following is an/are advantage(s) of object oriented analysis & design over structured system
analysis & design?**
► Ease of modeling real world events
► Reusability
► Maintainability
► **All of given   Click here for detail**

Question No: 1 (Marks: 1) - Please choose one
The two main documents produced during this phase are Requirement Statement and Requirement Specification. They are also called Requirement Definition and ----------

► **Functional Specification** **(Page 25)**
► Mathematical specification
► System Specification
► None of the given

Question No: 2 (Marks: 1) - Please choose one
A decision table should be used_____

► To document all conditional statements
► To guide the development of the project management plan
► Only when building an expert system
► **when a complex set of conditions and actions appears in a component** **Click here for detail**

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► Flow Graphs
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► Activity Networks
► Module Dependency Diagrams

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

► **Model View Controller** **(Page 140)**
► Modern View Center
► Model View Center
► Modern View Controller

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► Self Documenting Design
► Non of the above

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

Bugs that won't "stand still" (almost random) are the ---------- to deal with.
- ►least difficult
- ►**most difficult**   **(Page 226)**
- ►very easy
- ►easy

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

In refining the DFD during transaction mapping it is unnecessary to create a PSPEC since only the CSPEC is relevant to this type of architectural style.
- ► True
- ► False

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

Association is a type _____ of relation
- ►**Weak**   **(OOP , 49)**
- ►Stronger
- ►Normal
- ►None of above

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

Variable names must be in mixed case starting with upper case.

- ► True
- ► **False**   **(Page 150)**

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

Bugs that won't   (almost random) are the ---------- to deal with.

- ►**stand still**   **(Page 226)**
- ►Dynamic
- ►Static
- ►None of above

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

CRUD include following:-

- ►Creat
- ►Update
- ►Read
- ►**All of above**   **(Page 53)**

Question No: 12   (Marks: 1) - Please choose one
Bugs Finding is done by which of the teams in Software Development lifecycle?

    ► Development Team
    ► **Testing Team   (Page 196)**
    ► Analysis & Design Team
    ► Process Team

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    ► **Self documenting code   (Page 147)**
    ► Self telling Code
    ► Self Documenting Design
    ► None of the given

Question No: 16   (Marks: 1) - Please choose one
Project ------------- defines the concept and range of the proposed solution, and limitations identify certain capabilities that the product will not include
    ► **Scope   (Page 30)**
    ► Agreement
    ► Plan
    ► None of the given

Question No: 17   (Marks: 1) - Please choose one
In the N-Tire Architecture   the idea is to enhance scalability and -------------- by distributing both the data and the application using multiple server machines.
    ► **Performance   (Page 131)**
    ► Efficiency
    ► Usability
    ► non of the all

Question No: 18   (Marks: 1)
The cyclomatic complexity metric provides the designer with information regarding the number of
- ► Cycles in the program
- ► Errors in the program
- ► **Independent logic paths in the program   Click here for detail**
- ► Statements in the program

Question No: 19   (Marks: 1)
Which of the followings is not a testing type?
- ► Subsystem testing
- ► Alpha testing
- ► Beta Testing
- ► **Gamma Testing   (Page 198)**

Question No: 20   (Marks: 1)
Which of the items listed below is not one of the software engineering layers?
- ► Process
- ► **Manufacturing   Click here for detail**
- ► Methods
- ► Tools

Question No: 21   (Marks: 1)
Which piece of code is self-documented?
- ►if (x==0) // this is the case when we are allocating a new number
- ►if (AllocFlag == 0)
- ►**If (AllocFlag == NEW_NUMBER)   (Page 148)**
- ►None of the given

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Question No: 1   (Marks: 1)   - Please choose one
UML (unified modeling language) analysis modeling focuses on the _____ .
- ► behavioral model and environment model.
- ► behavioral model and implementation model.
- ► user model and environmental model
- ► **user model and structural model   (A P R A C T I T I O N E R ' S A P P R O A C H   Page 604)**

Question No: 2   (Marks: 1)   - Please choose one
What makes requirements elicitation difficult?

    ► bounding scope
    ► understanding user needs
    ► requirements volatility
    ► **all of the above**   (A P R A C T I T I O N E R ' S A P P R O A C H   Page **285**)

Question No: 3   (Marks: 1)   - Please choose one
In the architecture trade-off analysis method the architectural style should be described using the
    ► module view
    ► process view
    ► **all of the given**   (A P R A C T I T I O N E R ' S A P P R O A C H   Page **403**)
    ► data flow view

Question No: 4   (Marks: 1)   - Please choose one
In refining the DFD during transaction mapping it is unnecessary to create a PSPEC since only the CSPEC is relevant to this type of architectural style.
    ► True
    ► **False**   click here for detail

Question No: 5   (Marks: 1)   - Please choose one
A decision table should be used_____
    ► to document all conditional statements
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Question No: 6   (Marks: 1)   - Please choose one
Variable names must be in mixed case starting with upper case.

    ► True
    ► **False**   (Page 150)

Question No: 7   (Marks: 1)   - Please choose one
Which of these are objectives for software testing?

    ► determine the productivity of programmers
    ► eliminate the need for future program maintenance
    ► eliminate every error prior to release
    ► **uncover software errors**   (A P R A C T I T I O N E R ' S A P P R O A C H   Page **467**)

Question No: 8   (Marks: 1)   - Please choose one
Comparison testing is typically done to test two competing products as part of customer market analysis prior to product release.

   ► True
   ► **False   Click here for detail**

Question No: 9   (Marks: 1)   - Please choose one
In software quality assurance work there is no difference between software verification and software validation

   ► True
   ► **False   Click here for detail**

Question No: 10   (Marks: 1)   - Please choose one
Top-down integration testing has as it's major advantage(s) that

   ► low level modules never need testing
   ► major decision points are tested early
   ► **no stubs need to be written   Click here for detail**
   ► none of the given

Question No: 11   (Marks: 1)   - Please choose one
Rooko mut jane do depicts one of risks associated with inadequate requriements gathering, the name of that risk is ----------------------

   ► **Ambiguous requirements   (Page 20)**
   ► Creeping Requirements
   ► Minimal Specification
   ► Non of the above

Question No: 12   (Marks: 1)   - Please choose one
Interaction Diagrams depict the ------------- Behavior of the system
   ► Static
   ► **Dynamic   (Page 106)**
   ► Active
   ► Non of the above

Question No: 13   (Marks: 1)   - Please choose one
In Sequence Diagrams events are organized in a----------time line

   ► Vertical
   ► **Horizontal   (Page 106)**
   ► Vertical & Horizontal
   ► Non of the above

Question No: 14 (Marks: 1) - Please choose one
the development view describes the ----------organization of the software in its development environment,

► **Static** **(Page 122)**
► Dynamic
► Still
► Static & Dynamic

Question No: 15 (Marks: 1) - Please choose one
Every view is potentially Hierarchical in this regard which of the view are Hierarchical ?

► Functioanl View
► Development View
► *Concurrency view*
► **All of given** **(Page 125)**

Question No: 16 (Marks: 1) - Please choose one
object-oriented framework that is a set of cooperative classes that make up reusable ---------- of a system

► Code
► **Design** **(Page 138)**
► Analysis
► non of the all

Question No: 17 (Marks: 1) - Please choose one
When planning for performance, one should always remember the ---------- rule

► **80/20** **(Page 177)**
► 20/80
► 80/22
► 80/90

Question No: 18 (Marks: 1) - Please choose one
In order to make a code more portable, Instead of using vendor specific language extensions, use ---------- as much as possible

► **STL** **(Page 179)**
► ANSI
► ISO
► CMMI

Question No: 19 (Marks: 1) - Please choose one
Performance & Usability are examples of ---------------------- requirements
► Business

► Functioanl
► **Non-Functioanl** **(Page 39)**
► User

Question No: 20 **(Marks: 1)** **- Please choose one**
Static analyzers are software tools for -------------- processing.

   ► analysis text
   ► **source text** **(Page 211)**
   ► design text
   ► non of the given

Question No: 21 **(Marks: 1)** **- Please choose one**
Software Bugs have multiple names, Which one of the belw is not the name of Software Bugs --------------
   ► Bugs
   ► Defects
   ► Errors
   ► **Mistakes** **(Page 213)**

Question No: 22 **(Marks: 1)** **- Please choose one**
According to a survey, when a software application is in the maintenance phase, --------- of its lifecycle cost is attributed towards the defects which are found in the software application after installation

   ► **20 %** **(Page 214)**
   ► 25 %
   ► 30%
   ► 35%

Question No: 23 **(Marks: 1)** **- Please choose one**
Bugs that won't "-----------------" (almost random) are the most difficult to deal with.

   ► **stand still** **(Page 226)**
   ► dynamic
   ► running
   ► stand tall

Question No: 24 **(Marks: 1)** **- Please choose one**
1. Variables should be initialized where they are declared and they should be declared in the -------------- scope possible.

   ► **Smallest** **(Page 158)**
   ► largest
   ► medium
   ► None of the given

Question No: 25   (Marks: 1)   - Please choose one
If you are initializing a variable at the time of declaration, do not declare another ----------- in the same statement.

- ► **variable   (Page 176)**
- ► object
- ► class
- ► None of given

Question No: 26   (Marks: 1)   - Please choose one
During Requirement Engineering process which of the following is/are document(s) used for fact finding?

- ► Company's employee list
- ► Samples of the company databases
- ► The company's mission statement and plan
- ► **All of given**

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Question No: 1 (Marks: 1) - Please choose one
Object-oriented domain analysis is concerned with the identification and specification of reusable capabilities within an application domain.

- ➤ **True   Click here for detail**
- ➤ False

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

- ➤ Allow software to be developed without any testing.
- ➤ Eliminate the need for costly requirements gathering activities.
- ➤ **Can reduce the time required to develop software.**
(A P R A C T I T I O N E R ' S A P P R O A C H   Page 73)
- ➤ Are best used by non-programmers to build small systems.

Question No: 3 (Marks: 1) - Please choose one
Data design actually begins during the creation of the analysis model, not the architectural model.

- ➤ **True   (A P R A C T I T I O N E R ' S A P P R O A C H   Page 397)**
- ➤ False

Question No: 4 (Marks: 1) - Please choose one
The states shown in a state transition diagram do not necessarily correspond to the processes shown in a control flow diagram for the same system.

➤ **True** **(A P R A C T I T I O N E R ' S A P P R O A C H** **Page 397)**
➤ False

Question No: 5 (Marks: 1) - Please choose one
The criteria used to assess the quality of an architectural design should be based on system

➤ **accessibility and reliability** **(A P R A C T I T I O N E R ' S A P P R O A C H** **Page 404)**
➤ data and control
➤ functionality
➤ implementation details

Question No: 6 (Marks: 1) - Please choose one
A useful technique for evaluating the overall complexity of a proposed architecture is to look at the component
➤ number and size of components
➤ **flow dependencies and sharing dependencies** **(A P R A C T I T I O N E R ' S A P P R O A C H** **Page 406)**
➤ size and cost
➤ none of the given

Question No: 7 (Marks: 1) - Please choose one
The three basic principles that guide maintainability are: simplicity, clarity, and_____ .

➤ **Generality** **(Page 146)**
➤ Reliability
➤ All of the given choices
➤ None of the Given choices

Question No: 8 (Marks: 1) - Please choose one
In order to make a program self documented a number of attributes required. Which one is the attribute/s of self documented program

➤ **All of the given choices** **(Page 147)**
➤ Size of each function
➤ Choice of variable
➤ Modularity

Question No: 9 (Marks: 1) - Please choose one
Floating point constants should always be written with decimal point and at least

- ➢ **one decimal** **(Page 161)**
- ➢ two decimal
- ➢ three decimal
- ➢ none of the given

Question No: 10 (Marks: 1) - Please choose one
The code becomes self explanatory with the help of proper use of parentheses. Select the right one.

- ➢ leapYear = year % 4 == 0 && year % 100 != 0 || year % 400 == 0 ;
- ➢ leapYear = ((year % 4 == 0) && (year % 100 != 0) || ((year % 400 == 0));
- ➢ **leapYear = ((year % 4 == 0) && (year % 100 != 0)) || (year % 400 == 0); (Page 164)**
- ➢ leapYear = (year % 4 == 0) && (year % 100 != 0) || (year % 400 == 0);
- ➢ none of the given options

Question No: 11 (Marks: 1) - Please choose one
Graph-based testing methods can only be used for object-oriented systems

- ➢ True
- ➢ **False**   **Click here for detail**

Question No: 12 (Marks: 1) - Please choose one
Configuration reviews are not needed if regression testing has been rigorously applied during software integration.

- ➢ True
- ➢ **False**   **Click he re for Detail**

Question No: 13 (Marks: 1) - Please choose one
A class is a -------------- of objects

- ➢ **Template**   **(Page 85)**
- ➢ Stereotype
- ➢ Collection
- ➢ Non of the above

Question No: 14 (Marks: 1) - Please choose one
A public Interface provides a way for with other Classes.
- ➢ **Communication**
- ➢ Accessibility
- ➢ Reaching
- ➢ All of the above

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

- ➢ **sequence Activity   (Page 50)**
- ➢ random activity
- ➢ parallel activity
- ➢ non of the above

Question No: 16 (Marks: 1) - Please choose one
Software architecture defines the high level structure of the software by putting together a number of architectural ---------- in an organized fashion.

- ➢ **Elements   (Page 122)**
- ➢ parts
- ➢ components
- ➢ non of the all

Question No: 17 (Marks: 1) - Please choose one
Patterns are devices that allow programs to share knowledge about their -------------.

- ➢ **Design   (Page 137)**
- ➢ Code
- ➢ Analysis
- ➢ Non of the all

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

- ➢ **Model View Controller   (Page 140)**
- ➢ Modern View Center
- ➢ Model View Center
- ➢ Modern View Controller

Question No: 19 (Marks: 1) - Please choose one
A -------------------- is a code that explains itself without the need of comments and extraneous documentation

- ➢ **Self documenting code   (Page 147)**
- ➢ Self telling Code
- ➢ Self Documenting Design
- ➢ Non of the them

Question No: 20 (Marks: 1) - Please choose one
Type conversions must always be done -------------

- ➢ **Explicitly   (Page 158)**
- ➢ implicitly
- ➢ simultaneously
- ➢ non of them

Question No: 21 (Marks: 1) - Please choose one
Types that are -----------to one file only can be declared inside that file.

- ➢ **Local   (Page 158)**
- ➢ Global
- ➢ Private
- ➢ General

Question No: 22 (Marks: 1) - Please choose one
The use of do while loops should be -------------

- ➢ **Avoided   (Page 159)**
- ➢ encouraged
- ➢ practiced
- ➢ non of them

Question No: 23 (Marks: 1) - Please choose one
One of the causes of the portability issues is the order of ----------- varies from one implementation to other.

- ➢ **Evaluation   (Page 181)**
- ➢ numbers
- ➢ variables
- ➢ symbols

Question No: 24 (Marks: 1) - Please choose one
------------- is a powerful technique that separates error-handling code from normal code.

- ➢ **Exception handling   (Page 184)**
- ➢ Code handling
- ➢ variable handling
- ➢ pointer handling

Question No: 25 (Marks: 1) - Please choose one
The goal of testing is to expose ---------- defects in a software system before it is put to use.

- ➢ **Latent   (Page 193)**
- ➢ already present
- ➢ current
- ➢ runtime

Question No: 26 (Marks: 1) - Please choose one
Static analyzers are software tools for --------------- processing.

- ➢ analysis text
- ➢ **source text   (Page 211)**
- ➢ design text
- ➢ non of the given

Question No: 27 (Marks: 1) - Please choose one
The first bug was actually a moth, which flew through an open window and into one of the Mark ---------
's relays.

- ➢ **II   (Page 213)**
- ➢ I
- ➢ III
- ➢ IV

Question No: 28 (Marks: 1) - Please choose one
Which one of the given below is not a symptom of memory overrun?

- ➢ Program crashes quite regularly after a given routine is called, that routine should be examined for a possible overrun condition.
- ➢ If the routine in question does not appear to have any such problem the most likely cause is that another routine, called in the prior sequence, has already trashed variables or memory blocks.
- ➢ Checking the trace log of the called routines leading up to one with the problem will often show up the error.
- ➢ **Compiler warnings.   (Page 220)**

Question No: 29 (Marks: 1) - Please choose one
Holistic medicine, concerns itself with the state of the body as a whole, not the ----------- that is currently attacking it.

- ➢ reason
- ➢ **disease   (Page 224)**
- ➢ source
- ➢ non of the given

Question No: 30 (Marks: 1) - Please choose one
Bugs that won't "stand still" (almost random) are the ---------- to deal with.

- ➢ least difficult
- ➢ **most difficult**   **(Page 226)**
- ➢ very easy
- ➢ easy