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CS504 Software Engineering - I

BC110201120 (WAQAR SHAHID)

Question No : 1 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ bring-in the system's view and define, from the system's perspective, the software functionality the developers must build.

Answer ( Please select your correct option )

- Functional Requirements
- Non-Functional Requirements
- User Requirements
- Business Requirements

Correct answer solved by Hadi  
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Cell no: 03228043306

Start Time: 11:18 AM  
120:00

Question No : 2 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is NOT an objective for building an analysis model?

Answer ( Please select your correct option )

- Define set of software requirements
- Describe customer requirements
- Develop an abbreviated solution for the problem **Correct**
- Establish basis for software design

Correct answer solved by Hadi  
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Cell no: 03228043306

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Question No : 3 of 52

Marks: 1 (Budgeted Time 1 Min)

Control flow diagrams use \_\_\_\_\_

Answer ( Please select your correct option )

- Dashed lines to show control flow
  - Solid bars as windows into the CSPEC
  - Single headed arrows for discrete data flow
  - Dashed lines to show control flow and solid bars as windows into the CSPEC
- i think

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3

http://localhost/vutes/client/Instructions.aspx

File Edit View Favorites Tools Help

Favorites Suggested Sites Web Slice Gallery

Examination VU Examination System (...)

Home RSS Mail Print Page Safety Tools

Question No : 4 of 52

Marks: 1 (Budgeted Time 1 Min)

Consider the following scenario:

“Student logs the system and checks his/her lecture schedule”

Keeping in mind the use case diagram, and above scenario the one of the post conditions might be:

Answer ( Please select your correct option )

- Student should have a login
- System should be available
- Student should log-off after checking schedule
- Lecture schedule should be displayed date wise

**Correct**

Correct answer solved by Hadi  
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Question No : 5 of 52

Marks: 1 (Budgeted Time 1 Min)

OOA is intended to define-----, their relationships, and their behavior.

Answer ( Please select your correct option )

- Variables
- Classes **Correct**
- Objects
- Subjects

Correct answer solved by Hadi  
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Question No : 6 of 52 Marks: 1 (Budgeted Time 1 Min)

One of the most powerful features of exception handling is that an error can be ----- over function boundaries.

Answer ( Please select your correct option )

- Thrown **Correct**
- Called back
- Caught
- Sent

Correct answer solved by Hadi  
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Question No : 7 of 52

Marks: 1 (Budgeted Time 1 Min)

Inspections can check conformance with a specification but not conformance with the -----requirements.

Answer ( Please select your correct option )

- Customer's real **Correct**
- Developer
- Tester
- Manger

Correct answer solved by Hadi  
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Question No : 8 of 52 Marks: 1 (Budgeted Time 1 Min)

For inspections, ----- are prepared that contain information regarding defects.

Answer ( Please select your correct option )

- Tables
- Checklists **Correct**
- Lists
- Frames

Correct answer solved by Hadi  
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Question No : 9 of 52 Marks: 1 (Budgeted Time 1 Min)

The first "bug" was actually a moth, which flew through an open window and into one of the Mark ----- 's relays.

Answer ( Please select your correct option )

- II correct Correct answer solved by Hadi  
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- I
- III
- IV

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Question No : 10 of 52

Marks: 1 (Budgeted Time 1 Min)

Holistic medicine, concerns itself with the state of the body as a whole, not the ----- that is currently attacking it.

Answer ( Please select your correct option )

- Target
- Reason
- Disease **Correct**
- Source

Correct answer solved by Hadi  
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10

Question No : 11 of 52 Marks: 1 (Budgeted Time 1 Min)

What factor has no precipitation in more sophisticated and complex computer-based systems?

Answer ( Please select your correct option )

- Vast use of personel computers. **cORRECT**
- Vast increases in computer memory and storage capacity.
- Greater variety of exotic input/output options.
- Profound changes in computer architectures.

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Question No : 12 of 52

Marks: 1 (Budgeted Time 1 Min)

What types of errors are missed by black-box testing and can be uncovered by white-box testing?

Answer ( Please select your correct option )

Runtime errors

Logic errors **Correct**

Performance errors

Input errors

Correct answer solved by Hadi  
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Question No : 13 of 52 Marks: 1 (Budgeted Time 1 Min)

When large amount of data is to be shared, repository model is used. This model has been extensively used in the \_\_\_\_\_ based application.

Answer ( Please select your correct option )

- Mainframe **Correct**
- Super Computers
- Personal Computers
- Real time

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13

Question No : 14 of 52

Marks: 1 (Budgeted Time 1 Min)

A(n) \_\_\_\_\_ is a variance from a desired product attribute.

Answer ( Please select your correct option )

- Error
- Exception
- Defect **Correct**
- Mistake

Correct answer solved by Hadi  
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Question No : 15 of 52 Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ ensures that a class only has one instance and provides a global point of access to it.

Answer ( Please select your correct option )

- Singleton Pattern **Correct**
- Observer Pattern
- Behavioral Pattern
- Joint Pattern

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Navigation icons: info, back, forward, search, print



Question No : 16 of 52

Marks: 1 (Budgeted Time 1 Min)

Performance & Usability are examples of \_\_\_\_\_ requirements.

Answer ( Please select your correct option )

- Business
- Functional
- Non-Functional **Correct**
- User

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Question No : 17 of 52 Marks: 1 (Budgeted Time 1 Min)

CamelCase is now the official convention for file names and identifiers in the \_\_\_\_\_ programming language.

Answer ( Please select your correct option )

- C#
- C++
- Java **Correct**
- Visual Basic .Net

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Time Left

Question No : 18 of 52 Marks: 1 (Budgeted Time 1 Min)

Comments should be indented relative to their position in the \_\_\_\_\_.

Answer ( Please select your correct option )

- Code **Correct** Correct answer solved by Hadi  
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- Design
- Analysis
- Reuirements

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Question No : 19 of 52 Marks: 1 (Budgeted Time 1 Min)

One of the guidelines to avoid common mistakes is to never use \_\_\_\_\_ except for declaration.

Answer ( Please select your correct option )

- Correct
- ;
- =
- ||

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Question No : 20 of 52 Marks: 1 (Budgeted Time 1 Min)

When planning for performance, one should always remember the \_\_\_\_\_ rule.

Answer ( Please select your correct option )

- 80/20 **Correct** Correct answer solved by Hadi  
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- 70/20
- 60/20
- 100/20

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Question No : 21 of 52 Marks: 1 (Budgeted Time 1 Min)

Behavioral class pattern uses \_\_\_\_\_ relationship to distribute behavior between classes.

Answer ( Please select your correct option )

- Composition
- Aggregation
- Association
- Inheritance **Correct**

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Question No : 22 of 52 Marks: 1 (Budgeted Time 1 Min)

Software crisis appeared in \_\_\_\_\_

Answer ( Please select your correct option )

- Early 50s
- Early 60s **Correct** Correct answer solved by Hadi  
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- Early 70s
- Early 80s

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Question No : 23 of 52 Marks: 1 (Budgeted Time 1 Min)

In C++ or Java, named constants are written in all uppercase letters with \_\_\_\_\_ to separate words.

Answer ( Please select your correct option )

- Semicolon ;
- Underscore \_ **Correct**
- Colon :
- Dot .

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Question No : 24 of 52 Marks: 1 (Budgeted Time 1 Min)

Indentation larger than \_\_\_\_\_ makes deeply nested code difficult to read and increases the chance that the lines must be split.

Answer ( Please select your correct option )

- 2
- 4 **Correct**
- 3
- 1

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Question No : 25 of 52 Marks: 1 (Budgeted Time 1 Min)

Which phase of software development lifecycle is considered most expensive?

Answer ( Please select your correct option )

- Requirement Gathering
- System Design
- Maintenance **Correct**
- Development

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Question No : 26 of 52 Marks: 1 (Budgeted Time 1 Min)

A software requirement document describes all the \_\_\_\_\_ provided by the system along with the constraints under which it must operate.

Answer ( Please select your correct option )

- Conditions
- Services **correct**
- Tasks
- Actions

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Question No : 27 of 52 Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ and functional specification documents are produced in requirement analysis phase.

Answer ( Please select your correct option )

- Feasibility report
- Requirement definition **Correct**
- Requirement specification
- Design definition

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Question No : 28 of 52 Marks: 1 (Budgeted Time 1 Min)

During the program execution most of the time is spent on \_\_\_\_\_

Answer ( Please select your correct option )

- Conditional Structure
- Loops **Correct**
- Arrays
- Functions

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Question No : 29 of 52 Marks: 1 (Budgeted Time 1 Min)

Many applications need to be ported on to many different \_\_\_\_\_.

Answer ( Please select your correct option )

- Platforms **Correct**
- Language
- Compilers
- Software

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Time Left 

Question No : 30 of 52 Marks: 1 (Budgeted Time 1 Min)

There are \_\_\_\_\_ steps involved in identification of structure while deriving object model.

Answer ( Please select your correct option )

- Two **correct**
- Three
- Four
- Five

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Question No : 31 of 52 Marks: 1 (Budgeted Time 1 Min)

The technique which is used to separate error-handling code from normal code is called \_\_\_\_\_.

Answer ( Please select your correct option )

- Exceptional Handling **Correct**
- Function Handling
- Code Handling
- Variable Handling

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Question No : 32 of 52 Marks: 1 (Budgeted Time 1 Min)

In order to show the presence of a defect, a \_\_\_\_\_ breaks the system.

Answer ( Please select your correct option )

- Tester **correct**
- Developer
- Requirement Engineer
- Designer

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Question No : 33 of 52 Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ design decisions should be ones that are changeable in software development cycle.

Answer ( Please select your correct option )

- Early
- Late
- Heterogeneous
- Both a and b

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Question No : 34 of 52 Marks: 1 (Budgeted Time 1 Min)

Architectural model proposed by Clements et. al. contains \_\_\_\_\_ views.

Answer ( Please select your correct option )

- 3
- 4 **Correct** Correct answer solved by Hadi  
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- 5
- 6

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Question No : 35 of 52 Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ server provides set of applications that enable communication among clients using text, images, bulletin boards, video, etc.

Answer ( Please select your correct option )

- File
- Database
- Transaction
- Groupware **Correct**

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Question No : 36 of 52 Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ is result of efforts to find a middle ground between the fat client architecture and the thin-client architecture.

Answer ( Please select your correct option )

- Pipe and filter architecture
- N-tier architecture **Correct**
- Three tier architecture
- Zero install

Correct answer solved by Hadi  
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Question No : 37 of 52 Marks: 1 (Budgeted Time 1 Min)

The process view captures the concurrency and \_\_\_\_\_ aspects of the design.

Answer ( Please select your correct option )

- Synchronization **Correct**
- Asynchronization
- Mapping
- Data

Correct answer solved by Hadi  
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Question No : 38 of 52 Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ involve purely black box testing.

Answer ( Please select your correct option )

- Unit testing, Beta testing
- Acceptance testing, Interface testing
- Beta testing, Acceptance testing
- Integration testing, Interface testing

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Time Left

http://localhost/vutes/client/Instructions.aspx

File Edit View Favorites Tools Help

★ Favorites | ★ Suggested Sites | Web Slice Gallery

Examination VU Examination System (... x)

Home RSS Mail Print Page Safety Tools

Question No : 39 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ is the correct formula for calculating cyclomatic complexity of a program.

Answer ( Please select your correct option )

 V - N + 2 E - V + 2 E - N + 2 **Correct** E + N - 2

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Question No : 40 of 52 Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ is not included in test criteria applied in a phase of testing.

Answer ( Please select your correct option )

- Functional validity
- Interface integrity
- Correctness
- Programing Logic **Correct**

Correct answer solved by Hadi  
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Time Left

Question No : 1 of 52 Marks: 1 (Budgeted Time 1 Min)

The nature of software applications can be characterized by their information \_\_\_\_\_

Answer ( Please select your correct option )

- Complexity
- Content
- Determinacy
- Content and determinacy

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**Question No : 2 of 52** **Marks: 1 (Budgeted Time 1 Min)**

The best way to conduct a requirements validation review is to \_\_\_\_\_

**Answer ( Please select your correct option )**

- Examine the system model for errors
- Have the customer look over the requirements **Correct**
- Send them to the design team and see if they have any concerns
- Use a checklist of questions to examine each requirement

Correct answer solved by Hadi  
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**Question No : 3 of 52** **Marks: 1 (Budgeted Time 1 Min)**

Flow Charts represents \_\_\_\_\_

**Answer ( Please select your correct option )**

- Sequence Activity **Correct**
- Random activity
- Parallel activity
- Shuffle activity

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3

Navigation icons: info, back, forward, next, print

**Question No : 4 of 52** **Marks: 1 (Budgeted Time 1 Min)**

A process which does not take input is called \_\_\_\_\_

**Answer ( Please select your correct option )**

- Miracle process
- Core porcess
- Secondary process
- Zombie process

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Time Left

4

**Question No : 5 of 52** **Marks: 1 (Budgeted Time 1 Min)**

State Transition Diagram is helpful in determining \_\_\_\_\_

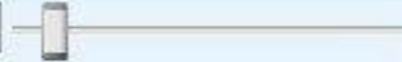
**Answer ( Please select your correct option )**

- Business Understanding
- Process Flow
- Data store
- Control Flow

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5



**Question No : 6 of 52** **Marks: 1 (Budgeted Time 1 Min)**

In a \_\_\_\_\_, each program module is represented by a rectangular box.

**Answer ( Please select your correct option )**

- Use case diagram
- Document flow diagram
- Class diagram
- Data flow diagram

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6 [Progress Bar] [Info] [Previous] [Next] [Print]

**Question No : 7 of 52** **Marks: 1 (Budgeted Time 1 Min)**

Identify the correct description.

**Answer ( Please select your correct option )**

- The collection of use cases for a system constitutes all the defined ways the system may be used. i think
- UML stands for Unified Markup Language
- State transition diagrams are drawn for objects with no significant dynamic behavior.
- Object Model depicts the dynamic behavior of system

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**Question No : 8 of 52** **Marks: 1 (Budgeted Time 1 Min)**

Which of the following is not a fundamental structured programming construct?

**Answer ( Please select your correct option )**

- Recursion
- Condition
- Repetition
- Sequence

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8 [Progress Bar] [Info] [Previous] [Next] [Print]

**Question No : 9 of 52** **Marks: 1 (Budgeted Time 1 Min)**

Which writing style is best regarding identifier role in enhancing the readability of a program?

**Answer ( Please select your correct option )**

- If (Flag == 0) **Correct**
- If (Flag == START\_NUMBER)
- If (Z == START\_NUMBER)
- If (Z==0)

Correct answer solved by Hadi  
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9 [Progress Bar] [Info] [Previous] [Next] [Print]

**Question No : 10 of 52** **Marks: 1 (Budgeted Time 1 Min)**

Exception handling is a powerful technique that separates error-handling code from ----- code.

**Answer ( Please select your correct option )**

- Normal **Correct**
- Abnormal
- Simple
- Complex

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**Question No : 11 of 52** **Marks: 1 (Budgeted Time 1 Min)**

One of the most powerful features of exception handling is that an error can be ----- over function boundaries.

**Answer ( Please select your correct option )**

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**Answer ( Please select your correct option )**

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- Tester
- Manger

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**Question No : 13 of 52** **Marks: 1 (Budgeted Time 1 Min)**

For inspections, ----- are prepared that contain information regarding defects.

**Answer ( Please select your correct option )**

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**Question No : 14 of 52** **Marks: 1 (Budgeted Time 1 Min)**

Static analyzers are software tools for ----- processing.

**Answer ( Please select your correct option )**

- Analysis text
- Source text **Correct**
- Design text
- Maintenance Text

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**Question No : 15 of 52** **Marks: 1 (Budgeted Time 1 Min)**

What factor has no precipitation in more sophisticated and complex computer-based systems?

Answer ( Please select your correct option )

- Vast use of personel computers. **Correct**
- Vast increases in computer memory and storage capacity.
- Greater variety of exotic input/output options.
- Profound changes in computer architectures.

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**Question No : 16 of 52** **Marks: 1 (Budgeted Time 1 Min)**

Testing is an intellectually demanding activity and has a lifecycle ----- to software development.

**Answer ( Please select your correct option )**

- Equal
- Parallel **Correct**
- Sequential
- In contrast

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**Question No : 17 of 52** **Marks: 1 (Budgeted Time 1 Min)**

\_\_\_\_\_ are used to describe flow of data or control in an application.

**Answer ( Please select your correct option )**

- Code structures
  - String matchings
  - Paths
  - Flow graphs
- Correct**
- Correct answer solved by Hadi  
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**Question No : 18 of 52** **Marks: 1 (Budgeted Time 1 Min)**

Writing test cases and generating test data are processes that demand \_\_\_\_\_ building capabilities.

**Answer ( Please select your correct option )**

- Code
- Domain
- System
- Scenario **Correct**

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**Question No : 19 of 52** **Marks: 1 (Budgeted Time 1 Min)**

Idea of zero install architecture is to develop a system where no installation on the \_\_\_\_\_ is needed.

**Answer ( Please select your correct option )**

- Client side **Correct**
- Server Side
- Client & Server Side
- Network

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**Question No : 20 of 52** **Marks: 1 (Budgeted Time 1 Min)**

There are four basic coding structures: sequence, if statement, case statement, and \_\_\_\_\_.

**Answer ( Please select your correct option )**

- For loop
- While loop **Correct**
- Switch statement
- Logical operations

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**Question No : 21 of 52** **Marks: 1 (Budgeted Time 1 Min)**

The pattern movement became very quiet until \_\_\_\_\_ when patterns appeared again at OOPSLA conference.

**Answer ( Please select your correct option )**

- 1987 **Correct**
- 1988
- 1962
- 1995

Correct answer solved by Hadi  
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**Question No : 22 of 52** **Marks: 1 (Budgeted Time 1 Min)**

In \_\_\_\_\_ coverage scheme, all possible paths of a program from input instruction to the output instruction are tested.

**Answer ( Please select your correct option )**

- Branch coverage
- Statement Coverage
- Path Coverage **Correct**
- System Coverage

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**Question No : 23 of 52** **Marks: 1 (Budgeted Time 1 Min)**

Inspections cannot check \_\_\_\_\_ characteristics.

**Answer ( Please select your correct option )**

- Non-Functionl **Correct**
- Business
- User
- Functional

Correct answer solved by Hadi  
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Question No : 24 of 52 Marks: 1 (Budgeted Time 1 Min)

Split lines occur when a statement exceed the \_\_\_\_\_ column limit.

Answer ( Please select your correct option )

- 80 **Correct**
- 90
- 95
- 85

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24 [Navigation icons: info, back, forward, print]

Question No : 25 of 52 Marks: 1 (Budgeted Time 1 Min)

Comments should be indented relative to their position in the \_\_\_\_\_.

Answer ( Please select your correct option )

- Code **Correct** Correct answer solved by Hadi  
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- Design
- Analysis
- Reuirements

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25

**Question No : 26 of 52** **Marks: 1 (Budgeted Time 1 Min)**

STL is a library of reusable components provided by \_\_\_\_\_ compilers.

**Answer ( Please select your correct option )**

- Java
- Cobol
- SmallTalk
- C++ **Correct**

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26

**Question No : 27 of 52** **Marks: 1 (Budgeted Time 1 Min)**

In \_\_\_\_\_, the responsibility of instantiation of an object is given to some other object.

**Answer ( Please select your correct option )**

- Behavioral
- Structural
- Creational **Correct**
- Observer

Correct answer solved by Hadi  
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**Question No : 28 of 52** **Marks: 1 (Budgeted Time 1 Min)**

\_\_\_\_\_ pattern is an example of creational pattern.

**Answer ( Please select your correct option )**

- Facade
- Singleton
- Observer
- Prototyping

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**Question No : 29 of 52** **Marks: 1 (Budgeted Time 1 Min)**

\_\_\_\_\_ pattern hides the implementation of the subsystem from clients, making the subsystem easier to use.

**Answer ( Please select your correct option )**

- Observer
- Fecade
- Creational
- Singleton

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Question No : 30 of 52 Marks: 1 (Budgeted Time 1 Min)

Indentation larger than \_\_\_\_\_ makes deeply nested code difficult to read and increases the chance that the lines must be split.

Answer ( Please select your correct option )

- 2
- 4 **Correct** Correct answer solved by Hadi  
Email : usmanraj20@gmail.com  
Cell no: 03228043306
- 3
- 1

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Question No : 31 of 52 Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ language allows short circuiting.

Answer ( Please select your correct option )

- Pascal
- C
- C++ **Correct**
- ADA

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Question No : 32 of 52 Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ language explicitly specifies which statement should be short circuiting.

Answer ( Please select your correct option )

- Pascal
- C
- C++ **Correct**
- ADA

Correct answer solved by Hadi  
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**Question No : 33 of 52** **Marks: 1 (Budgeted Time 1 Min)**

Which phase of software development lifecycle is considered most expensive?

**Answer ( Please select your correct option )**

- Requirement Gathering
- System Design
- Maintenance **Correct**
- Development

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Question No : 34 of 52 Marks: 1 (Budgeted Time 1 Min)

Dynamic memory allocation is done from internal memory storage called \_\_\_\_\_.

Answer ( Please select your correct option )

- Cache
- Pool **Correct**
- VRam
- Boot Memory

Correct answer solved by Hadi  
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Cell no: 03228043306

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**Question No : 35 of 52** **Marks: 1 (Budgeted Time 1 Min)**

Context level diagram is also known as \_\_\_\_\_.

**Answer ( Please select your correct option )**

- 0-level DFD **Correct**
- 1-level DFD
- 2-level DFD
- 3-level DFD

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**Question No : 36 of 52** **Marks: 1 (Budgeted Time 1 Min)**

\_\_\_\_\_ server provides set of applications that enable communication among clients using text, images, bulletin boards, video, etc.

**Answer ( Please select your correct option )**

- File
- Database
- Transaction
- Groupware **Correct**

Correct answer solved by Hadi  
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**Question No : 37 of 52** **Marks: 1 (Budgeted Time 1 Min)**

Unit testing process is done by \_\_\_\_\_ stakeholder of the software.

**Answer ( Please select your correct option )**

- Project Manager
- Customer
- Software Engineer
- Developer **Correct**

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Question No : 38 of 52 Marks: 1 (Budgeted Time 1 Min)

The number of paths in a program that contains loops tends to \_\_\_\_\_.

Answer ( Please select your correct option )

- Finite
- Infinity **Correct**
- Limited
- Countable

Correct answer solved by Hadi  
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Cell no: 03228043306

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**Question No : 39 of 52** **Marks: 1 (Budgeted Time 1 Min)**

When measure of independence of a module or component is low to the other, changes in one component have effect on other component is \_\_\_\_\_.

**Answer ( Please select your correct option )**

- No
- Low
- High
- Equal

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**Question No : 40 of 52** **Marks: 1 (Budgeted Time 1 Min)**

UML(Unified Modeling Language) is among different ..... which are used for documenting the object oriented design.

**Answer ( Please select your correct option )**

- Reports
- Documents
- Notations **Correct**
- SRS

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