

# VIRTUAL UNIVERSITY OF PAKISTAN

A Good Education is a Foundation For a Better Future

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## (Final Term Past Paper)

MADE AND SOLVED BY TEAM HADI

WARNING: Team HADI is not responsible for any mistake or wrong answer. All students reading and using this document may check and confirm the answers at their own.



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Best of luck!



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Examination VU Examination System (... x)

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

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Done

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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**

Correct answer solved by Hadi

Establish basis for software design

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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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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 **Correct**
- Student should log-off after checking schedule
- Lecture schedule should be displayed date wise

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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

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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

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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

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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

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Examination VU Examination System (... x)

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**

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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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

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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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Examination VU Examination System (... x)

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

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Examination VU Examination System (... x)

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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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

Correct answer solved by Hadi

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Examination VU Examination System (... x)

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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Examination VU Examination System (... x)

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**
- Design
- Analysis
- Reuirements

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Examination VU Examination System (... x)

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**

70/20

60/20

100/20

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Examination VU Examination System (... x)

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**

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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Examination VU Examination System (... x)

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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Examination VU Examination System (... x)

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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Examination VU Examination System (... x)

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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Examination VU Examination System (... x)

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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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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Examination VU Examination System (... x)

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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Examination VU Examination System (... x)

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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Examination VU Examination System (... x)

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**
- 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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Examination VU Examination System (... x)

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

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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

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Examination VU Examination System (... x)

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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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

Correct answer solved by Hadi

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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**

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Examination VU Examination System (... x)

Question No : 41 of 52 Marks: 2 (Budgeted Time 4 Min)

Which diagrams are used to present dynamic behavior of the system?

Answer ( Please [click here](#) to Add Answer )

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Examination VU Examination System (... x)

Question No : 42 of 52 Marks: 2 (Budgeted Time 4 Min)

Explain how can the size of the function in a program affect program maintainability?

Answer ( Please [click here](#) to Add Answer )

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Examination VU Examination System (... x)

Question No : 43 of 52 Marks: 2 (Budgeted Time 4 Min)

Suppose that you write a C program in which you declare a pointer to dynamically allocate memory to store the ages of 10 students. But, you forget to delete the pointer. In doing so, what type of bug will occur in the program?

Answer ( Please [click here](#) to Add Answer )

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Examination VU Examination System (... x)

Question No : 44 of 52 Marks: 2 (Budgeted Time 4 Min)

Suppose that software testing phase has been completed and all the defects have been discovered. What is the next step after completion of test phase?

Answer ( Please [click here](#) to Add Answer )

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Examination VU Examination System (... x)

Question No : 45 of 52 Marks: 3 (Budgeted Time 6 Min)

Bit fields do suffer from lack of portability between platforms. Why ?

Answer ( Please [click here](#) to Add Answer )

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Examination VU Examination System (... x)

Question No : 46 of 52 Marks: 3 (Budgeted Time 6 Min)

Consider the following scenario:

“A hard disk drive (e.g. C-drive, D-Drive etc) contains folders which contain files. Whenever user right clicks on the folder or file and presses delete button the file is deleted and is sent to recycle bin, from where it can be deleted permanently”

Using Peter Coad methodology, identify at least two container objects.

Answer ( Please [click here](#) to Add Answer )

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Question No : 47 of 52

Marks: 3 (Budgeted Time 6 Min)

Name at least three fault classes which must be specified while preparing an inspection checklist.

Answer ( Please [click here](#) to Add Answer )

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Examination VU Examination System (... x)

Question No : 48 of 52 Marks: 3 (Budgeted Time 6 Min)

How does profiling works?

Answer ( Please [click here](#) to Add Answer )

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Examination VU Examination System (... x)

Question No : 49 of 52 Marks: 5 (Budgeted Time 10 Min)

Rewrite the following code by following General naming conventions for C++

- 1) int fileprefix;
- 2) const int max\_iterations;
- 3) int getmaxiterations() { ... }
- 4) template<class t>

Answer ( Please [click here](#) to Add Answer )

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Examination VU Examination System (... x)

Question No : 50 of 52 Marks: 5 (Budgeted Time 10 Min)

Software Design Phase is a combination of number of activities. List those activities.

Answer ( Please [click here](#) to Add Answer )

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Examination VU Examination System (... x)

Question No : 51 of 52 Marks: 5 (Budgeted Time 10 Min)

Compute the cyclomatic complexity of the code below:

1. if (a > 10)
2. c++;
3. else

Answer ( Please [click here](#) to Add Answer )

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Examination VU Examination System (... x)

Question No : 52 of 52 Marks: 5 (Budgeted Time 10 Min)

How many test cases for the given scenario are generated to achieve 100% Statement coverage? Also draw the Flow graph for the scenario.

```
if (n%2==0)
    printf("even number");
else
    printf("Odd Number");
```

Answer ( Please [click here](#) to Add Answer )

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Examination VU Examination System (... x)

Question No : 52 of 52 Marks: 5 (Budgeted Time 10 Min)

```
if (n%2==0)
    printf("even number");
else
    printf("Odd Number");

printf("End of program");
```

Answer ( Please [click here](#) to Add Answer )

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