CS101 INTRODUCTION TO COMPUTING

FINAL TERM SOLVED MCQ

AND SHORT QUESTION

ACCORDING TO NEW UPDATED

COURSE OF VIRTUAL UNIVERSITY

OF PAKISTAN

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CS101 Introduction to Computing

Final Solved MCQ and Short Question

A computer translator is best described as:

Application software

System software

Hardware

Windows

Which of the following data type will be used for a variable having whole numeric values.

Integer

Float

Character

Boolean

What is the output of the following code?

```
int sum =25;
if ( sum >= 20 )
cout<<"You win ";
if ( sum < 20 )
cout<<"You lose  ";
cout<<"the prize.";
```

You win

You win the prize.

You lose

You lose the prize.

What will be the output of =COUNTIF(A2:A6,">=71") formula on the given Excel table:

	A
1	**Test Score**
2	65
3	71
4	89
5	21
6	71
7	34
8	81

4

5

3

2

\Each pass through a loop is called a(n)_____.

Iteration

Exception

Algorithm

Condition

TUG robot can carry medications of _____ kg.

300

350

400

450

The field of NLP tends towards which direction:

Theoretical

Engineering

AI

Business

Which of the following is a BLOCK element of HTML?
<img>

<a>

<table>

<td>

_____ is a hand-coding environment for writing and editing HTML and JavaScript in Adobe Dreamweaver.

Live view

Code view

Split view

Document view

XML stands for?
Extra Modem Link

Example Markup Language

Extensible Markup Language

X-Markup Language

Compilers and Editors come under which type of software?

System software

Application software

Scientific software

Operating systems

In which stage of SDLC, interaction of the system with outside world is defined.

Testing

Requirements analysis

Design

Implementation

In the earlier computers, the algorithm was the part of _____.

Main memory

Primary memory

CPU

Registers

Previously, computers were based on dedicated CPUs, those CPUs performed
_____.

Data manipulation

Multiple tasks

Only one task

Basic operation

Which of the following is not the primary area of concern in design phase?
Architecture

Data

Interface

Program specification

Which of the following testing technique focuses on the functional requirements of the software?
Black box testing

White box testing

Control structure testing

Green box testing

Which of the following symbol is used for grouping in a pseudo code.

()

[]

{}

""

Hearing loss due to computer is more common in those listening to:
High volume

Consistent volume

Inconsistent volume

Headphones

Consider the XML statement <staff clef = "treble"></staff> and tell what is the value of attribute in the statement?

Staff
Clef
Treble
</staff>

Specific legal rights which protect the owners of IP are:

IPR

OPR

Owners right

Copyright

Privacy uses the theory of:
Private right

Natural right

Personal right]

Artificial right

Generally the _____ technique is used to transmit passwords securely over the internet.

Protocol
Encryption
Extinction
Security

DVD stands for _____.
Digital Versatile Disk
Desktop Versatile Disk
Dot Versatile Disk
Domestic Versatile Disk

MS word is part of:

OS
Microsoft Windows
Utility programs

Microsoft office

Buttons to increase and decrease size of text are available on:

Paragraph group

Font group

Design group

All of the given

Font effects include:

Italicize

Format paint

Bullets

All of the given

What will be the output of =MIN(A6:A8) formula on the given excel table:

	A
1	**Test Score**
2	65
3	71
4	89
5	21
6	71
7	34
8	81

21

34

71

17

Shortcut key to insert a new comment in MS word is:

Shift + F2
Shift + F3
Alt + Shift + C

Alt + Shift + T

We can store _____ samples per second for long distance telephone communication.

7000

8000

8500

9000

Address of cell containing value "8" in spread sheet given below is:

3B

A3

B3

B8

Address of cell containing value "5" in spreadsheet given below is:

2B

B5

B2

B3

An interrupt converts the CPU to privileged mode and transfers control to _____ within the operating system.

Interrupt handler

Scheduler

Dispatcher

Memory manager

Page group options include:

Font

Page margins

Page break

All of these

Title page of the document is called:

Cover page

Start page

Header

Footer

When we share the document with others and want them to understand it easily we can add:

Header
Footer
Numbering
Comments

With object option we can add _____ in MS word document:

Word document
Excel sheet
Presentation slide
All of given

A one-dimensional array with _____ elements could be used to store the number of times each alphabet letter occurs in a page of text.

16
20
26
32

Inserting a new entry at the top of a stack is called _____ an entry.

Pushing

Popping

Inserting

Exiting

We often refer to the number of nodes in the longest path from the root to a leaf as the _____ of the tree.

Head
Root
Depth
Siblings

The nodes at the other extreme are called _____ nodes.
Head

Terminal

Siblings

Root

: A hard drive has 1 Giga byte storage.

1) **How many bytes can store in 1Mega byte?**

2) **How many bytes can store in 1 Kilo byte?**

ANS:

3) How many bytes can store in 1Mega byte?

1048576 bytes

4) How many bytes can store in 1 Kilo byte?

1024 bytes

Table is an important feature of MS-word. Which ribbon or tab allows us to add table?

ANS:

Insert tab:

Insert Tab is the second tab in the Ribbon. As the name suggests, it is used to insert or add extra features in your document. It is commonly used to add tables, pictures, clip art, shapes, page number, etc.

In computer science, coupling is considered to be the degree to which each program module relies on other modules. You are required to write the name of coupling which refers to the sharing of data between modules?

ANS:
The form of inter-module coupling is **data coupling**, which refers to the sharing of data betweenmodules.

Given below are the excel spreadsheet formulas. Correct these formulas if there is any error.
1. =MIN(C36+E36+E7)
2. =AVERAGE(3E, 8E)

ANS:
Correct form of MIN:
=MIN(C36, E36, E7)
Correct form of AVERAGE:
=AVERAGE(3E:8E)

A list is a collection, whose entries are arranged sequentially. There are two special types of lists; you are required to write the name of those lists.
ANS:
1.Stack
2. Queue

Considering the excel table given below:

	A	B	C
1	Name	Physics	English
2	Naveed	74	59
3	Iqbal	23	25
4	Ali	37	74
5	Usama	19	63
6	Mehmood	48	34
7	Nabil	56	27
8	Waseem	29	18

ANS:

A. Write MS Excel Formula to find all those students who have obtained marks greater than 33 in English. Also write its output.

ANs:

B. Write MS Excel Formula to find the highest marks obtained in Physics. Also write its output.
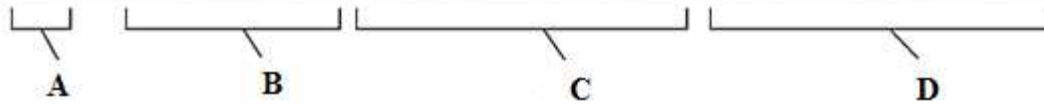

A modern testing methodology has been introduced in software development life cycle to improve the traditional approach. You are required to write the name of phases of modern testing methodology in software development life cycle.
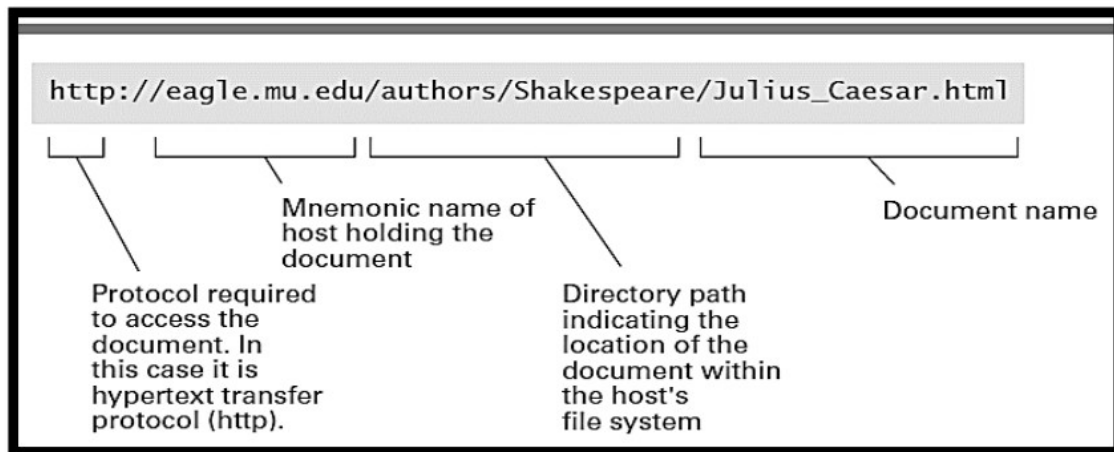**ANS:**
1. Requirement => Testing
2. Design => Testing
3. Build & Execution => Testing
4. Test => Testing
5. Installation => Testing
6. Maintenance => Testing

Below is the diagram in which a URL is given and it is divided into four segments (A, B, C, D). Your task is to write down the names of these four segments.

```
http://eagle.mu.edu/authors/Shakespeare/Julius_Caesar.html
```

A   B   C   D

ANS:

```
http://eagle.mu.edu/authors/Shakespeare/Julius_Caesar.html
```

Mnemonic name of
host holding the
document

Document name

Protocol required
to access the
document. In
this case it is
hypertext transfer
protocol (http).

Directory path
indicating the
location of the
document within
the host's
file system

You are required to mention any five categories in which IPR can be subdivided.

ANS:

Patent

Copyright

Database right

Design right

Trademark

Confidential information

What is the procedure of entering an excel spreadsheet in Microsoft word document?

ANS:

To insert an Excel worksheet into a Word document, place the insertion marker into the document location where you want to show the worksheet data. Then click the "Table" button in the "Tables" button group on the "Insert" tab of the Ribbon. Then click the "Excel Spreadsheet" command in the button's drop-down menu.

In imperative paradigm, we start with finding a(n)…….. and then express this as sequence of……

Algorithm, commands

Algorithm, pseudo code

pseudo code, commands

Commands, Algorithm

Which of the following language is not related to functional paradigm.

LISP

ML

Scheme

APL

The symbol "<<" is known as_____ operator.

Insertion

Extraction

Assignment

Relational In '11001101', identify the mantissa field:

1100

1101

1001

100

ISP stands for _____.

Intermediate Service Provider

Internet Service Provider

International Service Interface Service Provider

 Provider

Cluster computing describes a distributed system in which many _____ computers work closely together to provide computation.

Dependent

Independent

Isolated

Quantum

Robots in comparison of humans are able to take blood from the veins:
accurately

inaccurately

only small amount

inexactly

When you search 'jaguar' on Google then, it will show the result of car and
_____.
Bird

Parasite

Reptile

Animal

We write _____ operator then it will try to search all terms individually.
Intitle

Allintitle

Inurl

Intext

A test that shows the performance of AI model is called _____ :
Intelligence test

Alan test

Turing test

Turning test

The problems associated with general image analysis are:
Less

Enormous

Not common

Reduced

To understand natural language humans rely on:

Grammar

Computer

AI

additional knowledge

Which operators are used to compare the values of operands to produce logical value in C language?

Relational operator

Logical operator

Assignment operator

Arithmetic operator

A Software consists of _____ .
Programs + hardware manuals

Set of instructions + operating procedures

Set of programs

Programs + documentation + operating procedures

Which of the following is the first phase of software development life cycle?
Testing

Requirements analysis

Design

Implementation

The importance of software design can be summarized in a single word which is:

Efficiency

Accuracy

Quality

Complexity

Which of the following is not related to White-Box testing.

Structural testing

Code-Based Testing

Clear box testing

Boundary value analysis

In RGB, we have _____ bytes.
4

2

3

6

Content filtering can be used to implement company's:

Content

Policies

Impact

Privacy

Formulas in excel start with?
#

%

=

+

An important component within today's GUI shells is the _____.

Window manager

Task manager

User manager

Interface manager

In Excel, Rows are labelled as _____.
A,B,C, etc.

1,2,3, etc.

A1,A2, etc.

A1,A2, etc.

Example of combination command is:

Change case control

Bold

Underline

Italic

If we have pasted the text in wrong line and want to cancel this action we can use _____ command.

Redo

Undo

Cut

Cancel

We can perform sort from group:
Insert

Clipboard

Font

Paragraph

Shortcut key to insert a new comment in MS word is:

Shift + F2

Shift + F3
Alt + Shift + C
Alt + Shift + T
Which one of the following will not be considered as the use of Word Processor?
Composing Magazines
Writing Memos
Making Ledgers

Writing Research Reports

In styles menu we can:

Create style

Apply style

Modify style

All of these

Sniffing software records user activates and report them to _____

Authorized user

Super user
System administrator
Intruder
When we want to move to a bookmark we select it and click on button:

Go To
Move
Add

Ok

What will be the output of the following excel formula? If A1=4, B1= 6, C1= 2

$=(B1^{(A1-C1)})/2$

36

18

12

48

What will be the output of the following excel formula? B1= 5, C1= 2

$=(B1^{C1})/2$

25

12.5

50

10

What will be the output of the following excel formula? If A1=11, C1= 2

$=(A1-C1)*2$

-18

9

18

10

Address of cell containing value "4" in spread sheet given below is:

3B

A3

A2

A4

We can insert a preformatted sidebar text box through:

Styles

Text box

Design

Text Style

When we are using themes in MS-word the tooltip indicates _____ theme:

Previous

Upcoming

Current

Disabled

The SELECT operation extracts _____ from a relation.

a cell

rows

columns

table

A one-dimensional array with _____ elements could be used to store the number of times each alphabet letter occurs in a page of text.

16

20

26

32

A _____ array consists of multiple rows and columns in which positions are identified by pairs of indices.

1-dimensional

2-dimensional

3-dimensional

non of above

The simplest form of array is the _____array.

1-dimensional

2-dimensional

3-dimensional

Multi-dimensional

You are using a programming paradigm in which a software system is viewed as a collection of units and each unit is capable of performing the actions that are immediately related to itself. Together, these units interact to solve the problem at hand.

What is the name of the paradigm?

ANS:

object-orientedprogramming (OOP)

Considering the excel table given below:

	A	B
1	Fruit	Qty in stock
2	Apple	366
3	Mango	476
4	Orange	398
5	Pineapple	982
6	Grape	354
7	Melon	534
8	Banana	408

Write excel formula to find the lowest quantity in stock according to above table. Also write its output.
ANS:
=MIN(B2:B8)

Problem solving is done by the two most popular methodologies practice in the algorithm designing. Write down the names of these methodologies only.

ANS:

top-down methodology

bottom-up methodology

You are required to name the options for the following tasks.

ANS:

1. Content at the top of every page of the document.

   ANS: Header

2. Content at the bottom of every page of the document.

ANS: Footer

Write the select query for the following statement:
- Select all the teachers whose **publications** are greater than 5, from the **teacher** table

ANS:

SELECT teachers FROM teacher WHERE publications > 5;

Considering the excel table given below:

	A	B	C
1	Name	Physics	English
2	Naveed	74	59
3	Iqbal	23	25
4	Ali	37	74
5	Usama	19	63
6	Mehmood	48	34
7	Nabil	56	27
8	Waseem	29	18

A. Write MS Excel Formula to find all those students who have obtained marks greater than 33 in English. Also write its output.

B. Write MS Excel Formula to find the highest marks obtained in Physics. Also write its output.

What are the Binary arithmetic operators? Write the arithmetic forms and operations.

ANS:

There are six binary arithmetic operators: addition, subtraction, multiplication, exponentiation (**), division, and modulus (%).

Notice that every tenth item is printed. By changing the value on the right side of the modulus operator, you can affect how many items are processed before the message is printed.

Represent the following bit pattern in binary decimal.

ANS:

Hexadecimal	Binary Decimal
B629	Binary: 1011011000101001

	Decimal: 46633
BF87	Binary: 1011111110000111
	Decimal: 49031
C052	Binary: 1100000001010010
	Decimal: 49234
79A5	Binary: 111100110100101
	Decimal: 31141
659E	Binary: 110010110011110
	Decimal: 26014

How many types of command a ribbon has? Mention them.
ANS:

The Ribbon has three types of Commands:

• Simple Buttons

• Drop-down menus Buttons

• Launchers (or Dialog Expanders) Buttons

Write the output of the following queries.
ANS:

1. Select * from Student where GPA<1.5

   ANS: all students who has cgpa less than 1.5.

2. Select * from Student where name="David"

   ANS: all students whose name is David.

3. Select * from employee where salary=10,000

   ANS: all employees whose salary is equal to 10,00.