## Sample Paper FINAL TERM EXAMINATION

Fall 2022

CS101 - Introduction to Computing

Time: 90 min Marks: 60

# Objective Part [40 sample MCQs each of Mark (01)- You need to attempt any 33 questions from these]

Question No. 1 (Marks: 01) - Please choose the correct option

What is the difference between HTTPS and HTTP?

- A. HTTPS is a secure version of HTTP
- B. HTTP is a secure version of HTTPS
- C. There is no difference between the two
- D. Both A and B are correct

## Question No. 2 (Marks: 01) - Please choose the correct option

What is the main goal of algorithm discovery?

- A. To find an optimal solution to a problem
- B. To find a solution to a problem that is not optimal
- C. To find a new way to solve an old problem
- D. To find a problem that can be solved by an existing algorithm

## Question No. 3 (Marks: 01) - Please choose the correct option

Wha	t is the primary	goal of an algorithm?				
A.	To store data in a specific order					
B.	To solve a specific problem or perform a specific task					
C.	To communicate information between different computer systems					
D.	To create vis	sually appealing graphics				
Ques	stion No. 4	(Marks: 01) - Please choose the correct option				
Whic	ch tool is used	to convert codes of assembly language into machine language?				
A.	Assembler					
B.	Debugger					
C.	Compiler					
D.	Interpreter					
			_			
Ques	stion No. 5	(Marks: 01) - Please choose the correct option				
Ques		(Marks: 01) - Please choose the correct option sed for the application of backtracking in computer programs.	-			
Ques			-			
	is us		-			
A.	is us		-			
A. B.	Tree Array					
A. B. C.	Tree Array Queue		_			
A. B. C. D.	Tree Array Queue Stack	sed for the application of backtracking in computer programs.	_			
A. B. C. D.	Tree Array Queue Stack	sed for the application of backtracking in computer programs.  (Marks: 01) - Please choose the correct option				
A. B. C. D.  Ques	is us  Tree  Array  Queue  Stack  Stion No. 6	sed for the application of backtracking in computer programs.  (Marks: 01) - Please choose the correct option				

- C. Tree
- D. Array

## Question No. 7 (Marks: 01) - Please choose the correct option

Which of the following is not a software metric?

- A. Complexity
- B. Cost
- C. Design
- D. Efficiency

## Question No. 8 (Marks: 01) - Please choose the correct option

Which of the following phases of the software development life cycle is about developing a solution to the problem?

- A. Requirement analysis
- B. Design
- C. Implementation
- D. Testing

## Question No. 9 (Marks: 01) - Please choose the correct option

In which software model, a simplified version of the final product with limited functionality is constructed?

- A. Waterfall model
- B. Incremental model
- C. Prototype model

## D. Integrated Model

## Question No. 10 (Marks: 01) - Please choose the correct option

Which software testing methodology ensures that each instruction in the software is executed at least once?

- A. Basic path testing
- B. Black box testing
- C. Beta testing
- D. Alpha testing

## Question No. 11 (Marks: 01) - Please choose the correct option

Which of the following is used for the repetitive execution of instruction?

- A. List
- B. Loop
- C. If-Else Statement
- D. Variable initialization

## Question No. 12 (Marks: 01) - Please choose the correct option

Repetitive control of loop consists of following three activities:

- A. Initialize, execute, test,
- B. Modify, execute, test
- C. Initialize, test, modify

D. Test, modify, compare

C.

int marks [4][4]

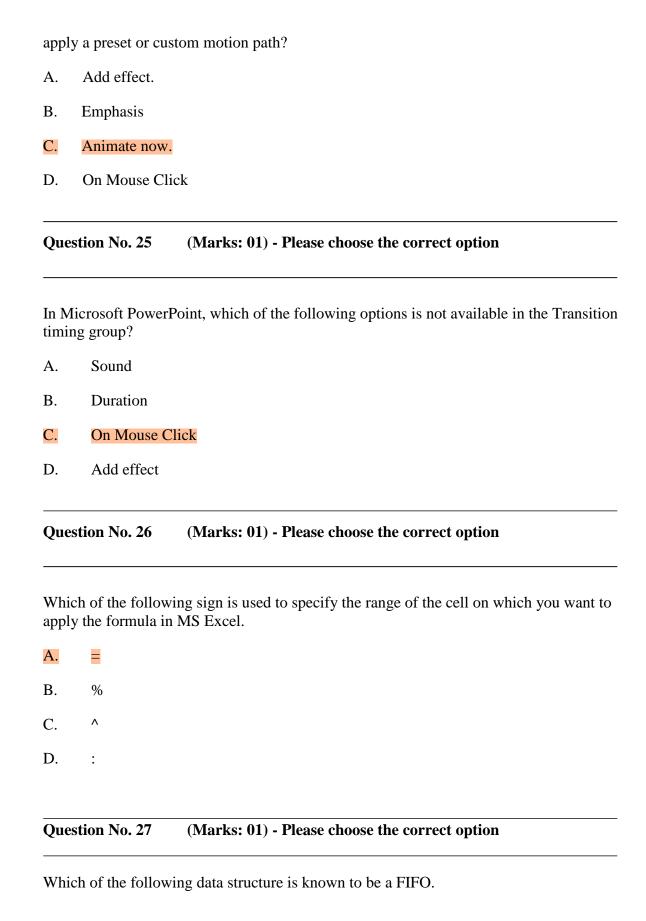
Que	stion No. 13	(Marks: 01) - Please choose the correct option			
	hich iterative struuted.	ucture of loop, test for termination will perform after the body is			
A.	Pretest loop				
B.	Posttest loop				
C.	While loop				
D.	For loop				
Que	stion No. 14	(Marks: 01) - Please choose the correct option			
Recu	ırsive system dep	pends on for fulfill terminating condition.			
A.	Initialization				
B.	Testing				
C.	Execution				
D.	Modification				
Que	stion No. 15	(Marks: 01) - Please choose the correct option			
A tw	vo-dimensional a	rray named "marks" having 4 rows and 5 columns can be declared			
A.	int marks [5][	4]			
B.	int marks [4][	5]			

Que	stion No. 16	(Marks: 01) - Please choose the correct option	
Arra	y is a block of e	lements of the type.	
A.	Particular		
B.	Same		
C.	Non-linear		
D.	Heterogeneo	us	
Que	stion No. 17	(Marks: 01) - Please choose the correct option	
Que	stion No. 17	(Marks: 01) - Please choose the correct option	
	stion No. 17  3 will be equal		
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11% A. B. C. D.	3 will be equal to 0 3 2	50:	

B.	/	
C.	%	
D.	!	
Que	stion No. 19	(Marks: 01) - Please choose the correct option
Whic	ch of the follow	ving software is used for making resume?
A.	MS Excel	
B.	MS Word	
C.	Dev C	
D.	Java	
Que	stion No. 20	(Marks: 01) - Please choose the correct option
Whic	ch of the follow	ving is an example of page orientation?
A. L	andscape	
B. Sı	ubscript	
C. Sı	uperscript	
D. A	A4	
Que	stion No. 21	(Marks: 01) - Please choose the correct option
In M	S Word. Zoom	in and out button is available on
A.	Scroll bar	

B.	Home tab
C.	Page layout tab
D.	View option toolbar
Que	estion No. 22 (Marks: 01) - Please choose the correct option
Mic	rosoft word is a/an software.
A.	Application
B.	Compiler
C.	System
D.	Programming
Que	estion No. 23 (Marks: 01) - Please choose the correct option
In M	ficrosoft Word, Thesaurus tool is used for the
A.	Grammar options
B.	Spelling suggestions
C.	Synonyms and Antonyms words
D.	Comments
Que	estion No. 24 (Marks: 01) - Please choose the correct option

In Microsoft PowerPoint, which option on the custom animation task pane allows you to



A.	Array	
B.	Queue	
C.	Stack	
D.	Tree	
Que	stion No. 28	(Marks: 01) - Please choose the correct option
 In	, tł	ne data entries are inserted and removed at the head.
A.	Array	
B.	List	
C.	Queue	
D.	Stack	
Que	stion No. 29	(Marks: 01) - Please choose the correct option
Bloc	k of data items	with different data types called
A.	Aggregates	
B.	Array	
C.	Pointer	
D.	Integer	
Que	stion No. 30	(Marks: 01) - Please choose the correct option

What is an indexed file?

- A. A file where records are stored in random order
- B. A file where records are stored in sorted order and an index is used to access the data quickly

- C. A file where records are stored one after another, in the order they were added
- D. A file where records are stored in the reverse order they were added

### Question No. 31 (Marks: 01) - Please choose the correct option

What is a sequential file?

- A. A file where records are stored in random order
- B. A file where records are stored in sorted order and an index is used to access the data quickly
- C. A file where records are stored one after another, in the order they were added
- D. A file where records are stored in the reverse order they were added

## Question No. 32 (Marks: 01) - Please choose the correct option

What are the advantages of using an indexed file over a sequential file?

- A. Indexed files allow for faster access to data
- B. Sequential files use less storage space
- C. Both A and B
- D. Indexed files are large

## Question No. 33 (Marks: 01) - Please choose the correct option

When would you use a sequential file over an indexed file?

- A. When you need to write data quickly
- B. When you don't need to access data frequently or quickly
- C. When you need to store a small amount of data
- D. When you need to access data according to requirement

Question No. 34		(Marks: 01) - Please choose the correct option			
Len	igth of Logical a	ddressing used in the computer networking is bits.			
A.	10				
B.	32				
C.	50				
D.	64				
Qu	estion No. 35	(Marks: 01) - Please choose the correct option			
EPI	C stands for				
A.	Electronic P	rivacy Information Center			
B.	Electrical Pr	ivate Information Center			
C.	Electricity P	rivacy Incoming Chamber			
D.	Electricity F	rublic Information Center			
Qu	estion No. 36	(Marks: 01) - Please choose the correct option			
	is used	to exploit secret information over the internet.			
A.	Antivirus				
B.	Spam email				
C.	Client				
D.	Firewall				

Que	estion No. 37	(Marks: 01) - Please choose the correct option
Cor	ntent risk involve	S
A.	Online Haras	sment
B.	Spamming	
C.	Unsuitable pr	roducts
D.	Harmful Adv	rice
Que	estion No. 38	(Marks: 01) - Please choose the correct option
Sor	ting is used for _	in MS Excel.
A.	Arrange data	
B.	Remove data	
C.	Add data	
D.	Hide data	
Que	estion No. 39	(Marks: 01) - Please choose the correct option
Dat	abase Relation is	also referred to as
A.	Column	
B.	Rows	
C.	Table	

_		$\sim$	
Г	)	Cel	Πc

## Question No. 40 (Marks: 01) - Please choose the correct option

The extension of the web page document is \_\_\_\_\_.

- A. .html
- B. .mtl
- C. .css
- D. .doc

## **Subjective Part**

## [06 Short questions of 3 Marks each- You need to attempt any 04 questions from these]

Question No. 41 (Marks: 03)

What is the difference between a While-Structure and Function-Structure in Algorithms?

Question No. 42 (Marks: 03)

What will be the Output of the following code?

## Question No. 43 (Marks 03)

Write down the Excel formulas for each cell in column "E" to compute the remaining amount after subtracting the expenses from salary.

1	Α	В	С	D	E
1	name	position	salary	expense	remaining
2	adeel	scale 14	89220	13672	?
3	sidra	scale 8	67781	13457	?
4	amir	scale 15	129782	98367	?

## Question No. 44 (Marks 03)

Write down the steps to insert a new page in an MS Word document using the Insert ribbon.

## Question No. 45 (Marks 03)

How can you insert footnotes and endnotes in MS Word? Write down the steps.

## Question No. 46 (Marks 03)

Write down the names of at least three programming language that belongs to the Object-Oriented programming paradigm.

## [04 Descriptive questions of 5 Marks each- You need to attempt any 03 questions from these]

### Question No. 47 (Marks 05)

Define pretest and posttest loops and also show the concepts of both loops with flow diagrams.

### Question No. 48 (Marks: 05)

What is 'Data Abstraction'? Provide the name of at least three data structures that come under data abstraction.

### Question No. 49 (Marks: 05)

Differentiate between the following areas of Engineering:

1- Ergonomics

## 2- Cognetics

## Question No. 50 (Marks: 05)

A database relation named "CANDIDATE" is given as:

CANDIDATES						
CandID	FirstName	LastName	City	Age	Degree	Experience
1	Ali	Umar	Lahore	22	BSCS	0
2	Aslam	Iqbal	Karachi	27	MBA	5
3	Adnan	Ahmed	Multan	24	BBA	2
4	Bilal	Khan	Okara	23	BSIT	1
5	Burhan	Idrees	Lahore	20	MSc GIS	1
•••						
•••			•••	•••		•••

You are required to define relational database operations (queries) to extract the following information for this table.

- 1. Write a relational query to extract all the candidates with a degree of BSIT from the relation 'CANDIDATES'.
- 2. Write a relational query to extract all the information in columns 'FirstName', 'LastName', and 'Age' from the relation 'CANDIDATES'.