Computer Science (Objective)

Time: 20 Minutes   Marks: 15

You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill the relevant circle in front of that question number on computerized answer sheet. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero marks in that question. Attempt as many questions as given in objective type question paper and leave other circles blank.

(MS-Access)

Questions	A	B	C	D
The data in table is entered in:	Design view	Normal view	Data sheet view	Layout view
A database consists of various components called:	Tools	Properties	Entities	Objects
In 3NF, a non-key attributed must not depend on a:	Non-key attribute	Key attribute	Composite key	Sort key
An entity related to insert in an ERD model refer to:	Recursive relationship	One-to-many	Many-to-many	One to one relationship
Insert command is used to insert:	A new table	A new record	A view	Dependencies
Which data model is more flexible?	Network data model	Hierarchical data model	Relational data model	Object data model

(C – Language OR Visual Basic)

(C – Language)

	Questions	A	B	C	D
	Which character is used to make the end of the string?	\a	\n	\s	\o
	The process of sending an argument to a function is called:	Sending	Filtering	Delivering	Passing
	While loop is also called:	Conditional loop	Wend loop	Counter loop	Continuous loop
0	Which loop structure always executes at least once?	For	while	Do while	Nested
1	Another term for a computer making a decision is:	Sequential	Repetition	Selection	Iteration
2	Which programming structure executes program statements in order?	Relation	Decision	Sequence	Repetition
3	An ampersand before the name of a variable denotes:	Actual value	Variable name	Address	Data type
4	Which data type is the most appropriate for storing a name?	Float	Int	Char	Long
5	The .exe file is produced by:	Linker	Loader	Compiler	Interpreter

OR (Visual Basic)

	Questions	A	B	C	D
7	Which returns true if A = 25 and B = 35 ?	A >= B	A > B	A = B	A <> B
8	Which is not a property of the common controls?	Fore colour	Name	Back colour	Close
9	While loop is also called:	Conditional loop	Wend loop	Counter loop	Continuous loop
10	How many times is the test expression of select case evaluated?	– 1	0	1	2
11	In Visual Basic, which keyword is used at starting point of a decision structure?	Loop	For	If	Else
12	A loop within a loop is called:	Outer loop	Complex loop	Nested loop	Inner loop
13	An object is composed of:	Properties	Methods	Events	Data
14	Which data type is the most appropriate for storing a name?	Float	Int	Char	Long
15	The .exe file is produced by:	Linker	Loader	Compiler	Interpreter

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SECTION – I

Write short answers to any SIX parts. 12

(MS – Access)

(i) Define data inconsistency.
(ii) What is the purpose of backup and recovery?
(iii) What is entity?
(iv) Differentiate between cardinality and modality.
(v) What is homonym?
(vi) When is a relation in second normal form?
(vii) Write four major database objects in MS-Access.
(viii) Define the term degree of relation.
(ix) Differentiate between form and report.

3. Write short answers to any SIX parts. 12

(C – Language)

(i) Differentiate between linker and loader.
(ii) Define structured programming language.
(iii) Describe the use of comments in C-language.
(iv) How string value is displayed in C-language?
(v) Determine the output of the following code:
```
int N = 65 ;
printf ( " % c " , N ) ;
```
(vi) Find errors in the following code segment:
```
int a b ;
a = = 10 ;
```
(vii) Write a C-statement to initialize three integer variables named A, B and C and assign them the values 10, 20 and 30 respectively.
(viii) Write a single C-statement to print the following text:
```
Hello to
The World of C
```
(ix) What is the output of the following code segment?
```
float f = 1.34129 ;
printf ( " f = % 7.3 f " , f ) ;
```

OR   (Visual Basic)

(i) What is metadata?
(ii) What is difference between structured and object-oriented programming?
(iii) List two types of user interfaces.
(iv) What property is used to set a form's height and width?
(v) Why is it important to declare a variable?
(vi) How is integer division different from floating point division?
(vii) What is a literal constant?
(viii) Differentiate between properties and methods.
(ix) What does option Explicit statement means in Visual Basic?

4. Write short answers to any SIX parts. 12

(C – Language)

(i) How are instructions executed in sequence structure?
(ii) What is a counter controlled loop?
(iii) Determine the output of the following code segment:
```
int p, q, x ;
p = 21 ; q = 4 ;
if ( p % q = = 4 )
    x = 0 ;
else
    x = 1 ;
printf ( " x = % d " , x ) ;
```
(iv) What is the output of the following piece of code?
```
int k ;
for ( k = 0 ; k > = 0 ; k + + )
    printf ( " % d \ n " , k ) ;
```
(v) Convert this piece of code to "do-while" loop:
```
for ( i = 1 ; i < = 0 ; i + + )
    printf ( " loop \ n " ) ;
```
(vi) Write a C-statement using conditional operator that checks the values of two variables (x,y). It assigns the smallest value to the variable 'min'.
(vii) How does a function return value?
(viii) Define a stream.
(ix) Differentiate between function definition and function declaration.

OR   (Visual Basic)

(i) Differentiate between inner and outer loops.
(ii) What is a counter variable?
(iii) Define the working of logical "AND" operator.
(iv) Define concatenation.
(v) What is a variable?
(vi) Define a comment in Visual Basic.
(vii) What are arithmetic operators?
(viii) What is a compound condition? Give example.
(ix) Why it is important to assign a data type to a variable?

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SECTION – II   Each question carries 08 marks.

(MS-Access) Attempt any ONE question from the following:

5. Explain data models in detail.

6. What is filter? Discuss different types of filters in MS-Access.

Attempt any TWO questions either from C-Language OR Visual Basic

(C – Language)

7. Describe the characteristics of high level programming language.

8. Briefly explain the basic control structures for writing programs.

9. Write a program in C-language which inputs a number from user and displays its table.

(Visual Basic)

7. Describe the characteristics of high level programming language.

8. Briefly explain the basic control structures for writing programs.

9. Write a program in Visual Basic which inputs a number from user and displays its table.

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