

Computer Science (Objective)

(For All Sessions)

Time: 20 Minutes

Marks : 15

Note: Write Answers to the Questions on the objective answer sheet provided. Four possible answers A, B, C and D to each question are given. Which answer you consider correct, fill the corresponding circle A, B, C or D given in front of each question with Marker or Pen ink on the answer sheet provided.

MA-ACCESS

Rwp-12-23

- In ERD model, the relationship between the two entities is represented by a:

(A) Diamond symbol	(B) Rectangular box	(C) Oval symbol	(D) Line
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- In 3NF, a non-key attribute must not depend on a (n):

(A) Non-key attribute	(B) Key attribute	(C) Composite key	(D) Sort key
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- The data in table is entered in:

(A) Design view	(B) Normal view	(C) Data sheet view	(D) Layout view
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- How many are the layout of Form?

(A) 2	(B) 3	(C) 4	(D) 5
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- Which of the following represents a collection of concepts that are used to describe the structure of a database?

(A) Data warehouse	(B) Data model	(C) Data structure	(D) Data type
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- Insert command is used to insert:

(A) A new table	(B) A new record	(C) A view	(D) Dependencies
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C-LANGUAGE

- The function getche () is defined in:

(A) Stdio.h	(B) String.h	(C) Math.h	(D) Conio.h
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- Which of the following is NOT selection statement?

(A) If	(B) Switch	(C) While	(D) If-else
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- When condition never becomes false the loop becomes:

(A) Infinite loop	(B) Continuous loop	(C) Finite loop	(D) Tested loop
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- Function prototypes for built-in functions are specified in:

(A) Source files	(B) Header files	(C) Object files	(D) Image files
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- C language was developed in:

(A) 1969	(B) 1972	(C) 1974	(D) 1977
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- To compile a C language program use:

(A) F2	(B) Alt+F5	(C) Alt+F9	(D) F3
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- Which of the following operator has the lowest precedence?

(A) =	(B) !	(C) ==	(D) +
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- The symbol "==" represents:

(A) Arithmetic operator	(B) Relational operator	(C) Assignment operator	(D) Logical operator
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- $a \neq b$ is equivalent to:

(A) $b \neq a$	(B) $a = b$	(C) $a = a / b$	(D) $b = b / a$
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VISUAL BASIC

- The statement that will immediately terminate a For...next loop is:

(A) End for	(B) Exit loop	(C) End loop	(D) Exit for
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- The upper bound of array with 10 values is:

(A) 01	(B) 1	(C) 9	(D) 5
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- Which method causes the control to be re-drawn?

(A) Refresh	(B) Set focus	(C) Visible	(D) Move
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- The prefix for naming a menu item is:

(A) M	(B) mnu	(C) mne	(D) Mn
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- The diamond symbol in a flow chart indicates:

(A) Input	(B) Condition	(C) Process	(D) Output
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- To exit visual basic:

(A) Ctrl+Q	(B) Alt+T	(C) Alt+Q	(D) Ctrl+Z
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- One can enter data in a control only when it has:

(A) Focus	(B) Control	(C) Tab order	(D) Mask
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- The expression $3 \text{ mod } 5$ has a value equal to:

(A) 2	(B) 3	(C) 1	(D) 0
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- The entire select case construct is terminated with:

(A) Case else	(B) End if	(C) End select	(D) Stop select
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SECTION-I
MS ACCESS

RWP-12-23

(6x2=12)

2. Write short answers of any six parts from the following:
- What is data redundancy?
 - Define synonym.
 - What is the role of data administrator?
 - Why is list box used in form?
 - How many primary keys can be defined in a table?
 - What do you mean by IDE?
 - How referential integrity is attained?
 - How does a data base differ from a table?
 - What is the use of query wizard?

C LANGUAGE

(6x2=12)

3. Write short answers of any six parts from the following:
- What is high level language?
 - Distinguish between compiler and interpreter.
 - Why the logical error is the most difficult to trace?
 - Define syntax error.
 - Write the legal character for an identifier.
 - Rewrite the expression $x += 2$, without using compound assignment operator.
 - Find error in the following code segment:
Integer x, y, sum
 $z = x + y$
`Printf("sum = %d", z);`
 - Predict the output of the following code segment:
`int x = 13;`
`int y = 3;`
`Print of ("%d %d %d", x/y, y/x, x%y);`
 - How is a file closed?

(OR) VISUAL BASIC

3. Write short answers of any six parts from the following:
- What is high level language?
 - Distinguish between compiler & interpreter.
 - Why the logical error is the most difficult to trace?
 - Define syntax error.
 - Write the legal character for an identifier.
 - Define mouse down event.
 - What is key up event?
 - How form is unloaded?
 - What is mouse move event?

C LANGUAGE

(6x2=12)

4. Write short answers of any six parts from the following:
- Determine output of following code segment:
`Int n, a, b;`
`n = 400;`
`a = n % 100;`
`b = n / 10;`
`Print f("Result = %d %d", a, b);`
 - Determine output of following code segment:
`Int X = 1, Y = 3, z = 3;`
`If ((X == Y) //(Y == z))! (z == 2)`
`Printf("Yes");`
`else`
`printf("No");`
 - Define `clrscr()` function?
 - Write following statement in C language:
Temperature is between 25 and 35.
 - What happens if break is missed in case block?
 - Differentiate between while and do while loop.
 - What is the use of `scanf()` function?
 - What is nested loop?
 - Convert following code into for loop:
`Int c = 2`
`Do`
`Print f("%d", C);`
`While (C <= 5);`

(OR) VISUAL BASIC

4. Write short answers of any six parts from the following:
- What are Active X control
 - Define command button control.
 - Define procedure level variable.
 - What is the purpose of "caption" property of control?
 - Which function loads a picture at run time?
 - What is meant by event procedure?
 - Define "locked" property of textbox.
 - Differentiate between image and picture control.
 - Define combo box control.

SECTION-II

(8x1=8)

- Note Attempt any one question from the following: (MS ACCESS)
- Explain features of database management system.
 - What is ER diagram? Give an example of ER diagram

SECTION-III

(8x2=16)

- Note Attempt any two questions either from "C-Language" or "Visual Basic".

7. Define "if-else-if" statement. Explain its working with syntax, flowchart and example.
8. Write a program in C-language which prints the sum of the following series by using loop:
 $1 + \frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \dots + \frac{1}{n}$
9. Briefly describe the process of writing a function in C-language

- "Visual Basic"
7. Define "if - then - else - structure? Explain its working with syntax, flowchart and example.
8. Write a program in VB which prints the sum of the following series by using loop:
 $1 + \frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \dots + \frac{1}{n}$
9. Briefly describe the process of writing a function in VB