

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.

Rwp-12-23

MA-ACCESS

- 1.1. In ERD model, the relationship between the two entities is represented by a:
 - (A) Diamond symbol
 - (B) Rectangular box
 - (C) Oval symbol
 - (D) Line
- 2. 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
- 3. The data in table is entered in:
 - (A) Design view
 - (B) Normal view
 - (C) Data sheet view
 - (D) Layout view
- 4. How many are the layout of Form?
 - (A) 2
 - (B) 3
 - (C) 4
 - (D) 5
- 5. 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
- 6. Insert command is used to insert:
 - (A) A new table
 - (B) A new record
 - (C) A view
 - (D) Dependencies

C-LANGUAGE

- 7. The function getche () is defined in:
 - (A) Stdio.h
 - (B) String.h
 - (C) Math.h
 - (D) Conio.h
- 8. Which of the following is NOT selection statement?
 - (A) If
 - (B) Switch
 - (C) While
 - (D) If-else
- 9. When condition never becomes false the loop becomes:
 - (A) Infinite loop
 - (B) Continuous loop
 - (C) Finite loop
 - (D) Tested loop
- 10. Function prototypes for built-in functions are specified in:
 - (A) Source files
 - (B) Header files
 - (C) Object files
 - (D) Image files
- 11. C language was developed in:
 - (A) 1969
 - (B) 1972
 - (C) 1974
 - (D) 1977
- 12. To compile a C language program use:
 - (A) F2
 - (B) Alt+F5
 - (C) Alt+F9
 - (D) F3
- 13. Which of the following operator has the lowest precedence?
 - (A) =
 - (B) !
 - (C) ==
 - (D) +
- 14. The symbol "==" represents:
 - (A) Arithmetic operator
 - (B) Relational operator
 - (C) Assignment operator
 - (D) Logical operator
- 15. $a \neq b$ is equivalent to:
 - (A) $b \neq a$
 - (B) $a = b$
 - (C) $a = a / b$
 - (D) $b = b / a$

VISUAL BASIC

- 7. The statement that will immediately terminate a For...next loop is:
 - (A) End for
 - (B) Exit loop
 - (C) End loop
 - (D) Exit for
- 8. The upper bound of array with 10 values is:
 - (A) 01
 - (B) 1
 - (C) 9
 - (D) 5
- 9. Which method causes the control to be re-drawn?
 - (A) Refresh
 - (B) Set focus
 - (C) Visible
 - (D) Move
- 10. The prefix for naming a menu item is:
 - (A) M
 - (B) mnu
 - (C) mne
 - (D) Mn
- 11. The diamond symbol in a flow chart indicates:
 - (A) Input
 - (B) Condition
 - (C) Process
 - (D) Output
- 12. To exit visual basic:
 - (A) Ctrl+Q
 - (B) Alt+T
 - (C) Alt+Q
 - (D) Ctrl+Z
- 13. One can enter data in a control only when it has:
 - (A) Focus
 - (B) Control
 - (C) Tab order
 - (D) Mask
- 14. The expression $3 \text{ mod } 5$ has a value equal to:
 - (A) 2
 - (B) 3
 - (C) 1
 - (D) 0
- 15. The entire select case construct is terminated with:
 - (A) Case else
 - (B) End if
 - (C) End select
 - (D) Stop select

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