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

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 procedure?
   (A) =   (B) !   (C) ==   (D) +

14. The symbol " == " represents:
   (A) Arithmatic operator   (B) Relational operator   (C) Assignment operator   (D) Logical operator

15. $a /= b$ is equivalent to:
   (A) $b /= a$ (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 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

637-12-A-

SECTION-I

MS ACCESS

(6x2=12)

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

C LANGUAGE

(6x2=12)

3. Write short answers of any six parts from the following:
   i. What is high level language?
   ii. Distinguish between compiler and interpreter.
   iii. Why the logical error is the most difficult to trace?
   iv. Define syntex error.
   v. Write the legal character for an identifier.
   vi. Rewrite the expression $x += 2$, without using compound assignment operator.
   vii. 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);
```

   viii. Find error in the following code segment:

```
Integer x, y, sum
z = x + y
Print f ("sum = %d", z);
```

   ix. How is a file closed?

(OR) VISUAL BASIC

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

C LANGUAGE

(6x2=12)

4. Write short answers of any six parts from the following:
   i. 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);
```

   ii. 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");
```

   iii. Define clrscr ( ) function?
   iv. Write following statement in C language:
   Temperature is between 25 and 35.
   v. What happens if break is missed in case block?
   vi. What is the use of scanf ( ) function?
   vii. Differentiate between while and do while loop.
   viii. Convert following code into for loop:

```
Int c = 2
Do
Print f ("%d", C);
While (C <= 5);
```

   ix. What is nested loop?

(OR) VISUAL BASIC

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

SECTION-II

(8x1=8)

Note   Attempt any one question from the following: (M.S ACCESS)
5. Explain features of database management system.
6. 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".

"C-Language"

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:
$$1 + \frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \cdots + \frac{1}{n}$$
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:
$$1 + \frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \cdots + \frac{1}{n}$$
9. Briefly describe the process of writing a function in VB

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