Computer Science (Objective)

RWP-24

Time: 20 Minutes   Marks :

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. W... 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 provid...

MS-ACCESS

1.1 In an ER diagram, the rectangle represents:
(A) Attribute (B) Entity (C) Record (D) Relationship

2. In 3NF, a non-key attribute must not depend on a:
(A) Key attribute (B) Composite attribute (C) Primary attribute (D) Non-key attribute

3. The output of the query is in the form of a:
(A) Form (B) Object (C) Table (D) Report

4. In MS Access, text type allows maximum number of characters up to:
(A) 254 (B) 255 (C) 260 (D) 266

5. Select a data model which is more flexible among others:
(A) Network data model (B) Hierarchical model (C) Logical data model (D) Relational data model

6. In a table, each primary key value should be:
(A) Unique (B) Summarized (C) Non-unique (D) Null

C-LANGUAGE

7. Format specifier $\% .3f$ for the value of $-.005$ will produce output:
(A) $\square.005$ (B) $-.005$ (C) $\square-.005$ (D) -0.005

8. Select a statement which is used for making two-way decision:
(A) *Switch* (B) *If − else* (C) *If* (D) *nested if*

9. Consider $x = 12$ and $y = 13$, the output of the expression $x > y ? x + y : x - y;$ will be:
(A) -1 (B) 1 (C) 25 (D) 15

10. Select the loop in which condition is written before the body of the loop:
(A) $do - while$ loop (B) $wend$ loop (C) infinite loop (D) while loop

11. Local variables are created in:
(A) Hard disk (B) ROM (C) RAM (D) Cache

12. On successfully closing a file, the fclose ( ) returns:
(A) Null (B) 0 (C) 1 (D) -1

13. A program that combines object program with additional object files is:
(A) Linker (B) Loader (C) Preprocessor (D) Interpreter

14. An equivalent expression to $a /= b$ is:
(A) $b /= a$ (B) $a = /b$ (C) $a = a/b$ (D) $b = b/a$

15. Select format specifier that displays character on the screen:
(A) $\% d$ (B) $\% f$ (C) $\% c$ (D) $\% X$

(OR) VISUAL BASIC

7. Select the operator used for string concatenation:
(A) $-(Under\ score)$ (B) $\&\ (Ampersand)$ (C) $/(slash)$ (D) $+ (plus\ sign)$

8. In VB which statement is used to declare variable:
(A) Sub (B) Dim (C) Identifier (D) Event

9. The entire select case construct is terminated with:
(A) End Select (B) Case Else (C) End *if* (D) Stop select

10. The statement that will immediately terminate a For .... Next loop is:
(A) *End* for (B) *Exit loop* (C) *End loop* (D) *Exit* for

11. Select a control which is invisible at run time:
(A) Label (B) Image (C) Timer (D) Drive List Box

12. A window that requires the user to take some action before the focus can move to another form:
(A) Modelessly (B) Modal (C) Modular (D) Module

13. The rectangle symbol in flow chart indicates:
(A) Process (B) Input (C) Output (D) Condition

14. In Visual Basic, a form is another name for:
(A) Tool (B) Property (C) Object (D) Code

15. The property that changes text color is:
(A) Back color (B) Font color (C) Fore color (D) Text color

Computer Science (Subjective)

SECTION-I
MS-ACCESS   RWP-24

2. Write short answers of any six parts from the following: (6x2=12)

i. Differentiate between data and information.

ii. Consider the following figure and indicate the Field names and records:

R No.	Name	Class ID	Dep ID
1	Asif Ali	10	4
2	Aysha	10	4
3	Saleem	11	1

iii. Write two responsibilities of database Administrator.

iv. How will you determine that software development is feasible for an organization or not?

v. Write two differences between cardinality and modality of a relation.

vi. Why it is important to normalize the relation before you use it for storing data?   vii. What is the purpose of IDE in MS-ACCESS?

viii. Differentiate between design view and data sheet view of table.   ix. Write purpose of 'validation' and 'input mask' properties.

C- LANGUAGE

3. Write short answers of any six parts from the following: (6x2=12)

i. Define string constant. Give an example.

ii. Write the equivalent statement in Language C, for the following: $S = Vit + \frac{1}{2}at^2$

iii. Predict the output of the following code segment:

```
Int     a = 7;
Int     y = 3;
Printf ("%d and %d", x/y, x%y);
```

iv. Find errors in the following:

```
Void  main ()
{
Int   c = 7
Print f ("%d", C;
}
```

v. Compare getch and getche function

vi. Find errors in the following code segment:

```
Void   main ()
{
int   x = 5;
int   y
sum = x + y
Printf ("% d", sum);
}
```

vii. Find the output of the following code segment:

```
Void   main ()
{
Print f (" How |t are | t you");
Print f ("| n Bye ");
}
```

viii. How file is opened in C-Language?   ix. Define file pointer.

(OR) VISUAL BASIC (V.B)

3. Write short answers of any six parts from the following:

i. Differentiate between design time and run time.   ii. Define IDE.

iii. Write down two steps for creating Visual Basic project.   iv. Distinguish between object and event.

v. Describe key up event.   vi. Distinguish between hiding and closing of a form.

vii. Define focus.   viii. Name and explain two styles of combo box

ix. Distinguish between 'Default' and 'Cancel' properties of command button.

C- LANGUAGE

RWP-24

4. Write short answers of any six parts from the following: (6x2=12)

i. Why should you use a default label in switch structure?

ii. Determine output of following code segment:

```
Int  X = 1, Y, z;
If ( ( x == y) !! (y == z) !! (z == 2))
Print f ("yes");
else
Printf ("No");
```

iii. Write the syntax of do while loop.

iv. Convert following code into while loop:

```
Void main ( )
{
Int i;
for ( i = 1 ; i <= 10 ; i + +)
Printf ("Pakistan");
}
```

v. Determine output of following code:

```
Int i,    p = 1;
For ( i = 1 ; i < 6 ; i+= 1)
P *= 2;
Printf ("%d" ,P);
```

vi. Define between actual and formal parameters?   vii. What do you know about user defined functions?

viii. What is the scope of local variable?   ix. What is function definition?

(OR) VISUAL BASIC

4. Write short answers of any six parts from the following:

i. Write the syntax of message box in VB.   ii. What is concatenation and when would it be useful?

iii. What is compound condition? Give example.   iv. When should an *if* block be used instead of select case block?

v. When should you use do while loop?   vi. Which statement terminate do and for loop early?

vii. Write the syntax of do loop until.   viii. Draw flow chart of do loop while.

ix. Write output of following code segment:

```
i = 1
Do
  Print  i * i
  i = i + 1
Loop while i <= 5
```

SECTION-II

Note   Attempt any one question from the following: (MS- ACCESS)   (8x1=8)

5. What are data base anomalies? Briefly discuss insertion, deletion and modification anomalies.

6. Explain any four data types available in MS-ACCESS

SECTION-III

Note   Attempt any two questions either from "C-Language" or "Visual Basic".   (8x2=16)

(C-Language)

7. Describe the characteristics of high-level programming languages.

8. Write a program in C-Language which takes three members as input from user & display the smallest number by using logical operators.

9. Write a program that displays first five numbers and their sum using while loop.

(VISUAL BASIC)

7. Describe the characteristics of high-level programming languages.

8. Write a program in VB which takes three numbers as input from user & display the smallest number by using logical operators.

9. Write a program that displays first five numbers and their sum using while....wend loop.

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