

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. Write 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.

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) `□ .005` (B) `-.005` (C) `□ -.005` (D) `-.0005`
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)

(For All Sessions)

Time: 2:10 hours

SECTION-I**MS-ACCESS***RWP-24*

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

(6x2=12)

- Differentiate between data and information.
- 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

- Write two responsibilities of database Administrator.
- How will you determine that software development is feasible for an organization or not?
- Write two differences between cardinality and modality of a relation.
- Why it is important to normalize the relation before you use it for storing data?
- What is the purpose of IDE in MS-ACCESS?
- Differentiate between design view and data sheet view of table.
- Write purpose of 'validation' and 'input mask' properties.

C- LANGUAGE

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

(6x2=12)

- Define string constant. Give an example.

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

- Predict the output of the following code segment:

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

- Find errors in the following:

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

- Compare getch and getche function

- Find errors in the following code segment:

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

- Find the output of the following code segment:

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

- How file is opened in C-Language?

- Define file pointer.

(OR) VISUAL BASIC (V.B)

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

- Differentiate between design time and run time.
- Define IDE.
- Write down two steps for creating Visual Basic project.
- Distinguish between object and event.
- Describe key up event.
- Distinguish between hiding and closing of a form.
- Define focus.
- Name and explain two styles of combo box

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

C- LANGUAGE

RWP-24

(6x2=12)

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

- 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  
Print f ("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.