

**Computer Science** (Subjective)

(For All Sessions)

Time: 2:10 hours

**SECTION-I**  
**MS-ACCESS**

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?
- Differentiate between design view and data sheet view of table.
- What is the purpose of IDE in MS-ACCESS?
- 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:  $S = Vit + \frac{1}{2}at^2$

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

- Find errors in the following:

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

- 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 ()  
 {  
 $Print f (" How | t are | t you");$   
 $Print f ("| n Bye");$   
 }

- 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

(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
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.