

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?
- 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);
```

iv. Find errors in the following:

```
Void main ()
{
Int    c = 7
Printf ("%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 ()
{
Printf ("How |t are | t you");
Printf ("| 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:

- 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

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.