

Computer Science (Subjective)

Time: 02:10 Hours

Marks: 60

SECTION – I**2. Write short answers to any SIX parts.**

12

(MS – Access)

- (i) What is data dictionary?
- (ii) Let you have a relation STUDENT in your database, such that STUDENT (Col1 , Col2 , Col3 , Col4 , Col5) create a view on first and last attribute of STUDENT.
- (iii) What is data administrator?
- (iv) What is recursive relationship? Give an example.
- (v) Write any two disadvantages of "Centralized" data distribution strategy.
- (vi) Define transitive dependency.
- (vii) What is redundancy?
- (viii) What is the main purpose of wildcards?
- (ix) Differentiate between check boxes and radio buttons.

3. Write short answers to any SIX parts.

12

(C – Language)

- (i) Define variable.
- (ii) What is an array?
- (iii) Find any two errors:

```
int a = 10 , b = 40 ,
printf ( "Sum = :", a * b )
```
- (iv) Find any two errors:

```
Void main ( ) ;
float i = 15.6;
printf ( "%d", i ),
```
- (v) What is meant by format string?
- (vi) Describe End-of-File (EOF).
- (vii) Write the output of the following code:

```
printf ( "Escape sequence is a
\' cool \' "feature of
\'C-language\' " );
```
- (viii) Find output:

```
int a = 20;
int b = 3;
printf ( "Result = %d" , a % b );
```
- (ix) Write the statement in C-language: " Marks are between 40 and 60 "

OR (Visual Basic)

- (i) Define property in VB.
- (ii) What is the purpose of control naming conventions?
- (iii) Describe code window.
- (iv) Differentiate between runtime and break time.
- (v) What are keyboard events in VB?
- (vi) Write the purpose of the statement 'unload me'.
- (vii) Define label control.
- (viii) What is the purpose of a form?
- (ix) How does two groups of option buttons work independently?

4. Write short answers to any SIX parts.

12

(C – Language)

- (i) Define "switch" statement.
- (ii) Write the syntax of "do-while" loop.
- (iii) Predict the output of the following code segment:

```
int x = 2 , y = 1 , z = 5;
if ( x > y && y > z )
printf ( "YES" );
else
printf ( "NO" );
```
- (iv) Convert the following loop into do-while loop:

```
int i = 1;
while ( i <= 15 )
{
printf ( "PUNJAB" );
i ++;
}
```
- (v) List different types of functions in C.
- (vi) Define function body.
- (vii) Write the use of actual parameters.
- (viii) How is a function activated?
- (ix) Predict the output of the following code segment:

```
int i = 5;
do
{
printf ( "PAKISTAN" );
i = i - 1;
}
while ( i > 0 );
```

OR (Visual Basic)

- (i) Define infinite loop in VB.
- (ii) Define string data type in VB.
- (iii) Write the syntax of MsgBox.
- (iv) How select --- case helps in coding?
- (v) What is default property of command button?
- (vi) Define goto statement in VB.
- (vii) Differentiate between pretest and post test loop.
- (viii) What are legal characters of a identifier?
- (ix) Write the syntax of For --- Next loop.

SECTION – II Each question carries 08 marks.

(MS-Access) Attempt any ONE question from the following:

- 5. Briefly describe four disadvantages of database systems.
- 6. What is query? Discuss its uses and advantages.

Attempt any TWO questions either from C-Language OR Visual Basic

(C – Language)

- 7. What is basic structure of C-program? Explain its different parts briefly. 02,02,02,02
- 8. Write a program in C-language that inputs marks of a student and displays his high grade according to the given criteria:

Marks	> = 90	80 – 89	70 – 79	60 – 69	40 – 59	< 40
Grade	A	B	C	D	E	F

- 9. Write a program that displays first five numbers with their cubes using loop:

Output	1	1
	2	8
	3	27
	4	64
	5	125

(Visual Basic)

- 7. What are VB common controls? Explain any three common controls of VB. 02,02,02,02
- 8. Write a program in Visual Basic that inputs marks of a student and displays his high grade according to the given criteria:

Marks	> = 90	80 – 89	70 – 79	60 – 69	40 – 59	< 40
Grade	A	B	C	D	E	F

- 9. Write a program in VB that displays first five numbers with their cubes using loop:

Output	1	1
	2	8
	3	27
	4	64
	5	125