

Note:- You have four choices for each objective type question as A, B, C and D. The choice which you think is correct; fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question. Write **PAPER CODE**, which is printed on this question paper, on the both sides of the Answer Sheet and fill bubbles accordingly, otherwise the student will be responsible for the situation. Use of Ink Remover or white correcting fluid is not allowed.

(MS-ACCESS)

S.N.	Questions	A	B	C	D
1.	In Ms Access, table contains	Fields	Record	Character	File
2.	Which data type can be used to define a field that consist of only numbers to be used in calculations.	Text	Number	Memo	Date & Time
3.	A set of related files created and managed by a DBMS is called	Field	Record	Database	Module
4.	An attribute is also known as a	Table	Relation	Row	Field
5.	In an E-R diagram, a rectangle represents	Entity	Attribute	Relationship	Relation
6.	Which forms of dependency is removed in second Normal Form.	Functional	Transitive	Associative	Partial
7.	(C.Lang) The output of the compiler is called OR (VB) What is the name of a program that translates VB code to object code as a whole	Object code Interpreter	Source code Assembler	Linked code Debugger	Library code compiler
8.	(C.Lang) A memory location with some data that can be changed is called as OR (VB) A memory location with some data that can be changed is called as	Constant Constant	Named constant Named constant	Address Address	Variable Variable
9.	(C.Lang) Which of the following format specifier is used for character data type. OR (VB) Which of the following is not a Visual Basic control.	% d Command Button	% s Forms	% c Variable	% e Text Box
10.	(C.Lang) Which keyword is not used in switch statement. OR (VB) The naming prefix for a label control is	If lbl	Switch lab	Case l	Default lbe
11.	(C.Lang) The case block ends with OR (VB) In Visual Basic, which keyword is used at starting point of a decision structure.	End case Loop	End select For	Break If	Case end Else
12.	(C.Lang) The loop which never ends is called OR (VB) The keyword that marks the end of a Do- loop structure is	Infinite loop END Do	Running loop EXIT Do	Continuous loop END while	Nested loop Loop
13.	(C.Lang) Which loop structure always executes atleast once. OR (VB) _____ is an example of post test loop	do-while loop Do-while loop	for loop while loop	while loop do-end loop	while-end For loop
14.	(C.Lang) int is a _____ in C OR (VB) Which method is used to delete an item from the List Box?	Special word Add item	Key word Remove item	Cut word Clear item	First word Erase item
15.	(C.Lang) The fopen () function uses _____ parameters. OR (VB) Which one of the following controls can be placed directly on an MDI form.	1 Picture Box	4 Timer	3 Label	2 Image

SECTION ----- I

2. Answer briefly any Six parts from the following.

(MS-Access) $6 \times 2 = 12$

- (i) Why is it important to specify data type and size of a field? (ii) Define data redundancy. (iii) What is the basic purpose of using views? (iv) Write any two criterias to select file organization. (v) Define mutual exclusiveness of data. (vi) How entity integrity is attained? (vii) Write the use of database window in MS-Access. (viii) State the use of wild cards. (ix) Are sub-forms useful?

3. Answer briefly any SIX parts from the followings:-

 $6 \times 2 = 12$

C – Language

- (i) What is header file?
 (ii) What are logical Errors?
 (iii) Define object code.
 (iv) What is an Expression?
 (v) Enlist all relational operators in C language.
 (vi) What is the output of following code segment?

```
int n = 10;
n % = 2;
n += 5;
printf("%d", n);
```


 (vii) What is format specifier?
 (viii) What is the output of following code segment?

```
int x, y = 5;
x = y++;
printf("%d\n %d", x, y);
```


 (ix) Find Errors in the following code segment

```
#include <stdio.h>;
VOID main ( )
{
  printf("Hello c");
}
```

Visual Basic

- (i) Define source code.
 (ii) What is project Explorer in Visual Basic IDE?
 (iii) Give any three rules for naming variable.
 (iv) List three key events?
 (v) What is concatenation operator in Visual Basic?
 (vi) Predict the output of following code segment.

```
Dim n As Integer
n = 10
n = n mod 2
n = n + 5
print n
```


 (vii) Which case option is used to test a range of values?
 (viii) What is iteration?
 (ix) What is the difference between do-while and do-until loop?

4. Answer briefly any Six parts from the followings:-

 $6 \times 2 = 12$

C – Language

- (i) What is the purpose of default statement in switch structure?
 (ii) Write the error from the following code:

```
# include
void main ( )
{ float Y = 3.14
  if (Y == 3.14)
    printf ("%d", Y)
}
```


 (iii) Write the output of the following code:

```
int p = 3, q = 5;
if ( p > q)
  printf ("%d", p);
else
  printf ("%d", q);
```


 (iv) What is counter controlled loop?

Visual Basic

- (i) Define Select.. case statement.
 (ii) Write the error from the following code:

```
Dim x As Integer
If x < 10
  MsgBox "Error";
End
```


 (iii) Write the output of the following code:

```
Dim n As integer
n = 1
While n < 5
  print "PAKISTAN"
  n = n + 2
wend
```


 (iv) Describe nested loop.

- Q.No. 4 (i) Define nested-if Statement. (ii) Describe nested loop.
 (iii) Trace Errors in the following Code : (iv) Find Output from the following Code :

```
void main ( )
{
  int x = 3;
  int y = 4;
  if ( x < y );
  print f ( " %d ", y );
}
```

```
void main ( )
{
  int a = 5;
  If ( a % 2 == 0 )
    print f ( " Even " );
  else
    print f ( " Odd " );
}
```

 (v) Write the output of the following code : (vi) Convert the While Loop into do-while loop :

```
void main ( )
{
  int i;
  for ( i = 1; i <= 3; i++ )
    print f ( " %d ", i * i );
}
```

```
int i = 1;
while ( i <= 15 )
{
  print f ( " Hello " );
  i++;
}
```

 (vii) List any two benefits of Functions. (viii) State the purpose of Binary Stream.
 (ix) Why we use Prototype in Functions?

Visual Basic

- Q.No. 4 (i) Define a Constant. (ii) Describe if-then Statement.
 (iii) What is an Infinite Loop? (iv) What is meant by Looping Structure?
 (v) Find Output in the following Code : (vi) Trace the Errors in the following Code :

```
Dim n as integer
n = 15 Mod 4
print n
```

```
Dim marks as integer
marks = 50
if marks >= 30
  print " Pass "
else
  print " Fail "
End
```

 (vii) Find output of the following Code : (viii) Trace Output of the following Code :

```
i = 10
Do until i > 1
  i = i - 1
Loop
```

```
Dim n as integer
For n = 1 to 10 step 2
  print n
Next
```

 (ix) Trace Error in the following Code :

```
Dim i as int
Do while a < 10
  print i
Wend
```

Section - II (MS - ACCESS)

Note : Attempt any one of the following questions.

- Q.No.5 Briefly explain the Database Design Process. (8)
 Q.No.6 Define Report. Discuss its two types in detail. (8)

Section - III

Note : Attempt any two questions either from " C - Language " or " Visual Basic ".

C - Language

- Q.No.7 Explain any four steps for writing and executing C-Language Program. (8)
 Q.No.8 Write a Program in C to Input Single Character during Execution of Program and show either it is Vowel or Consonent. (8)
 Q.No.9 Define Do-While Loop. Write its syntax and its working. (8)

Visual Basic

- Q.No.7 Explain any four steps for writing and executing Visual Basic Application. (8)
 Q.No.8 Write a Program in Visual Basic to Input a Single Character during Execution of Program and show either it is Vowel or Consonent. (8)
 Q.No.9 Define Do-While Loop in Visual Basic. Write its syntax and also give example. (8)