

**OBJECTIVE**

**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 marks in that question.

**QUESTION NO. 1**

<b>MS-ACCESS</b>		<b>OR</b>	
<b>C-LANGUAGE</b>		<b>VISUAL BASIC</b>	
1	The output of the query is in the form of a (A) Table (B) Form (C) Report (D) List	7	Image control holds a graphic that is assigned to ..... property (A) Caption (B) Auto size (C) Picture (D) Text
2	How many table views are available in Microsoft Access (A) 1 (B) 2 (C) 3 (D) 4	8	All items in a list box can be cleared at once using method (A) Remove item (B) Delete (C) Finish (D) Clear
3	A collection of related fields is called (A) Character (B) File (C) Database (D) Record	9	You can enter data in a control only when it has (A) Control (B) Focus (C) Mask (D) Tab order
4	Which of the following is not a type of database key? (A) Public (B) Primary (C) Foreign (D) Secondary	10	Forms and controls are collectively recognized as (A) Properties (B) Method (C) Object (D) Events
5	In an ER diagram, a diamond represents (A) Attribute (B) Relationship (C) Entity (D) File	11	The naming prefix for a label control is (A) lable (B) la (C) lb (D) lbl
6	Which form of dependency is removed in 3NF? (A) Full (B) Functional (C) Transitive (D) Partial	12	Variables name cannot begin with (A) Number (B) Uppercase (C) Lowercase (D) Underscore
7	What will be the value of y after executing the following statement $y = (5 < 10) ? 5 : 10 ;$ (A) 5 (B) 10 (C) 510 (D) 15	13	The long data type in VB occupies ..... bytes (A) 1 (B) 2 (C) 4 (D) 8
8	All of the followings are control statements except (A) Sequential (B) Repetition (C) Selection (D) Float	14	A loop within a loop is called (A) Nested (B) Complex (C) Outer (D) Sentinel
9	Which of the following symbol is used at the end of case statement (A) ; (B) endl (C) : (D) <	15	..... is an example of post test loop (A) Do while (B) While wend (C) Do until (D) Do loop while
10	The first line of function definition is known as (A) Arguments (B) Function body (C) Return type (D) Function header		
11	An array subscript should be (A) float (B) int (C) double (D) string		
12	.exe is produced by (A) Loader (B) Interpreter (C) Linker (D) Debugger		
13	The number of bytes used by float data type in C-language is (A) 1 (B) 2 (C) 3 (D) 4		
14	Which of the following operator has lowest precedence? (A) = (B) + (C) * (D) ( )		
15	If int a = 5, then the statement printf (" % 4 d ", a) will display (A) 5 (B) 5 (C) 5 (D) " 5 "		

MS ACCESS

6 x 2 = 12

**QUESTION NO. 2** Write short answers to any Six (6) of the following parts

Dgk-24

- (i) Define record with example  
(ii) What is Alternate key ?  
(iii) How many attributes and records are contained in the following relation ?

Stud. No	Stud. Name	Gender	DOB
641	Ali	Male	12/01/2005
642	Taha	Male	29/05/2007

- (iv) Define relationship  
(v) What is the purpose of database design process ?  
(vi) What is homonym ?  
(vii) What is MS Access ?  
(viii) Write the use of input mask ?  
(ix) Why are sub form used ?

**QUESTION NO. 3** Write short answers to any Six (6) of the following questions

6 x 2 = 12

C-Language

- (i) What are standard identifiers ?  
(ii) Convert the expression  $A = \pi R^2$  in C-language expression  
(iii) If  $x = 2$  give output of following statement  

```
Printf( "%d", ++x );
Printf( "\n %d", x++ );
```

(iv) Write syntax of printf( ) function  
(v) Indicate the errors in following code ;  

```
int main (void) {
    const int pi = 3.1415 ;
    int R ;
    PRINTF( "%f", pi * R * R );
}
```

(vi) What is the output of following code  

```
int x = 32 ;
int y = 4 ;
printf( "%d and %d is %d", x, y, x % y );
```

(vii) Indicate errors in the following code ;  

```
int x, y ;
0 = x = y ;
x++ ;
printf( '%d', x + y );
```

(viii) Define a stream in C-Language  
(ix) Differentiate between "w" and "w+" modes to open a file in C-Language

OR

Visual Basic

- (i) Write the purpose of project explorer window  
(ii) Visual basic is known as event driven programming language, why ?  
(iii) What is the purpose of option explicit statement ?  
(iv) Differentiate between modal and modeless form in visual basic  
(v) What are intrinsic controls ?  
(vi) Why we use a label control ?  
(vii) What is difference between linking and embedding ?  
(viii) Write the purpose of "Large change" and "Small change" properties of scroll bar  
(ix) What is the purpose of "passwordchar" property of text box ?



**QUESTION NO. 4** Write short answers to any Six (6) of the following parts *DGK-24*  $6 \times 2 = 12$

**C-Language**

- (i) How are instructions executed in sequential structure ?
- (ii) Predict the output of the following  

```
int price = 19 ;
if (price != 10)
printf ( " price " ) ;
```
- (iii) Define loop
- (iv) Convert the following do while loop into for loop  

```
int c = 2 ;
do
printf ( " % d " , c ) ;
while (c + + <= 5) ;
```
- (v) Predict the output of the following code segment  

```
int x = 5 , y = 3 ;
do
{
x = x * 2 ;
y = y + 2 ;
}
while (y < 10) ;
printf ( " % d " , x) ;
```
- (vi) List any two benefits of using function
- (vii) Define function body
- (viii) How long the global variable exist in a memory ?
- (ix) Compare local and global variable

**OR**

**Visual Basic**

- (i) Define constant
- (ii) Write down two rules to give name to the variable
- (iii) Why is it important to declare variable before use?
- (iv) Distinguish between IF-Then-Else and Select-Case statement
- (v) In Visual Basic how select case help you in coding
- (vi) How nested IF is used in VB
- (vii) Distinguish between counter control and sentinel control loop
- (viii) Give an example of nested loop
- (ix) Distinguish between While-wend and Do-while loop

**SECTION-II (MS - ACCESS)**

**Note:** Attempt any one question

Q.5. What are database anomalies ? Discuss its three types

Q.6. Explain any four data types available in MS-Access

8

**SECTION-III**

**Note:** Attempt any two questions.

$(2 \times 8) = 16$

**C-Language**

- Q.7. What is programming language ? Discuss two main categories of programming languages
- Q.8. Write an interactive program that contains an if statement that may be used to compute the area of circle (area =  $\pi r^2$ ) or the circumference of circle (circumference =  $2 \pi r$ ) after prompting the user to type the first character of the formula name (A or C)
- Q.9. Write a program in C-Language that display product of all even numbers between 2 to 20 by using loop

**OR**

**Visual Basic**

- Q.7. What is programming language ? Discuss two main categories of programming languages
- Q.8. Write an interactive program that contains an if statement that may be used to compute the area of circle (area =  $\pi r^2$ ) or the circumference of circle (circumference =  $2 \pi r$ ) after prompting the user to type the first character of the formula name (A or C)
- Q.9. Write a program in VB that display product of all even numbers between 2 to 20 by using loop