

**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 in your answer book. Use marker or pen to fill the circles. ~~Cutting~~ or filling up two or more circles will result no mark.

**SECTION-A**

Q.1	Questions	A	B	C	D
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**MS-ACCESS**

1.	Different attributes in two different tables having same name are called:	Synonym	Homonym	Acronym	Mutually exclusive
2.	Customers, cars and parts are examples of:	Entities	Attributes	Cardinals	Relationships
3.	Which of the given is also known as control key?	Sort key	Composite key	Candidate key	Primary key
4.	A collection of related fields is called:	Character	Record	Database	File
5.	Which of the given is used to retrieve data from database and represent it to user in a formatted way?	Report	Form	Query	Table
6.	Which wild card replaces one character only?	*	?	:	!

**C-LANGUAGE**

7.	The value of C expression $9/5*2$ is:	3.6	0.9	0	2
8.	How many bytes are occupied by the statement : float a,b;	1	4	8	16
9.	Logical NOT operator, denoted by ! is a:	Ternary operator	Bitwise operator	Binary operator	Unary operator
10.	The .exe file is produced by?	Linker	Loader	Compiler	Interpreter
11.	Which of the given is the native language of computer?	C-Language	Pascal	Machine language	DOS
12.	The process of sending an argument to a function is called:	sending	filtering	delivering	passing
13.	Which of the given loop is not available in C language?	while wend	while	do while	for
14.	The case block ends with:	End select	End case	break	Case Else
15.	The functions used for input and output is stored in:	stdio.h	conio.h	math.h	inout.h

**OR**

**VISUAL-BASIC**



7.	For A=4 and B=4, which of the given one evaluates to true?	A<>B	A<B	A>B	A>=B
8.	Which of the given is valid assignment statement?	100=a	c+d=a+b	a=100	4=6
9.	Which operators are used to compare operands?	Arithmetic	Logical	Syntax	Relational
10.	The expression 3 mod 5 has a value equal to:	3	5	0	0.6
11.	Which operator is only used for string concatenation?	Plus sign (+)	Underscore (-)	Ampersand (&)	"and"
12.	The loop that never ends is called:	Continuous loop	Running loop	Nested loop	Infinite loop
13.	One execution of loop is known as:	iteration	cycle	Duration	Test
14.	Which statement is used in For-Next loop for early termination of loop?	Exit	Exit Do	Exit For	break
15.	Which of the given is used for making two way decision?	if-else	if	Nested if	switch



**SECTION-B  
MS-ACCESS**

2. Write short answers to any Six parts.
- Define the term data integration.
  - What is the purpose of views in MS Access?
  - Define the term entity.
  - What is referential integrity?
  - Define transitive dependency.

- Differentiate between form and report.
- Write any two advantages of query.
- Write use of OLE object in MS Access.
- List different layout of form.

(6 x 2 = 12)

3. Write short answers to any Six parts from "C-Language" OR "Visual Basic".

(6 x 2 = 12)

**C-LANGUAGE**

- Write the role of preprocessor directive.
- What is main function?
- Define bug and debugging.
- Which type of error is difficult to trace and why?
- Write the output of the code;  
`Printf("value=%d",4-l);`
- Describe L value and R value.
- What will be the value of x and y ? If x=7:  
`y=x++;`
- Find the errors: `Int a,b=20; Printf {"%d",b};`
- Illustrate difference between text and binary streams.

**Visual Basic**

- Define visual programming.
- What is default Event handler?
- Describe Mouse Move Event.
- Define Got Focus Event.
- Discuss cls method of Form.
- What is Caption property?
- Differentiate between properties and methods.
- Discuss the method of assigning properties at run time.
- Define Hexadecimal values from property window.

4. Write short answers to any Six parts from "C-Language" OR "Visual Basic".

(6 x 2 = 12)

**C-LANGUAGE****Visual Basic**

- Write down the use of "getch" function.
- What is the use of format specifiers in C language?
- Determine the output of the following code segment:  

```
Void main ()
{
    printf("555 It");
    printf("999");
    printf("In 444");
}
```
- How are instructions executed in sequence structure?
- Determine the output of the following code segment:  

```
if(2==4)
    printf("PUNJAB");
else
    printf("KPK");
```
- Write the following expression in C:  
w is either equal to 6 or not greater than 3.
- Write the syntax of while loop.
- Define infinite loop.
- Convert the following for loop into while loop.  
`for(i=1; i <=5 i ++)`  
`printf("ok");`
- Write two advantages of list Box?
- How Combo box is used?
- What is image control?
- In which situation scrollbar is used?
- How line control is used?
- What is timer?
- Why loops are important in programming language in VB.
- What is frame?
- What is Active x control?

**SECTION - C  
MS-ACCESS**

(8x1=8)

Note: - Attempt any One question.

- Define database model. Explain different types of database models.
- Explain physical Database design process.

**SECTION - D  
C-LANGUAGE**

Note: - Attempt any Two questions from "C-Language" OR "Visual-Basic".

- What is control structure? Briefly describe the basic control structures for writing programs.
- Write a program in C-language to print the given series. 0 3 6 9 12 15 by using loop.
- Write short note on the following:  
(a) Functions without arguments. (b) Functions that return a value and accept arguments.

**VISUAL BASIC**

- What is control structure? Briefly describe the basic control structures for writing programs.
- Write a program in VB language to print the given series. 0 3 6 9 12 15 by using loop.
- Write short note on the following:  
(a) Functions without arguments (b) Functions that return a value and accept arguments



Paper Code	8	8	3	3
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**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 in your answer book. Use marker or pen to fill the circles. Cutting or filling up two or more circles will result no mark.

**SECTION-A**

Q.1	Questions	A	B	C	D
-----	-----------	---	---	---	---

**MS-ACCESS**

1.	How many table views are available in Microsoft Access?	3	5	2	4
2.	A record is a complete set of _____ field.	Distinct	Related	Designed	Natural
3.	Different attributes in two different tables having same name are referred to as:	Synonym	Homonym	Acronym	Mutually exclusive
4.	An entity related to itself in an ERD model refers to:	Recursive relationship	One-to-Many relationship	Many-to-Many relationship	One-to-One relationship
5.	The foreign key is found in:	Parent table	Dependent table	Pivot table	Index table
6.	Which of the given may be a temporary file?	Master file	Transaction file	Backup file	Random file

**C-LANGUAGE**

7.	Memory is allocated to a local variable at the time of its:	declaration	destruction	definition	first reference
8.	Which of the given function is used to write a string to a file?	puts	put c ()	f puts ()	f gets ()
9.	Turbo C++ can compile:	C++ Programs only	C and C++ Programs	Turbo C Programs only	Turbo C++ Programs only
10.	In which loop the condition comes after the body of the loop:	While	Do-while	While wend	For
11.	Which of the given is valid case statement in a switch?	Case I:	Case xcy:	Case 'ab'	Case 2.5:
12.	Escape sequence \\ is used to print:	New line	Backslash	Space	Tab
13.	The logical not operator denoted by !, is a :	Ternary operator	Unary operator	Binary operator	Bitwise operator
14.	a+ = b is equivalent to:	b+ = a	a = +b	a = a + b	b = b + a
15.	Void occupy how many bytes in memory?	Zero	One	Two	Four

**OR**

**VISUAL-BASIC**



7.	Memory is allocated to a local variable at the time of its:	Declaration	Destruction	Definition	First reference
8.	Which of the method will close a file?	Close all	Append	Close	Exit
9.	Visual Basic can compile:	C++ Programs	Visual Basic Programs	C Programs	Java Programs
10.	In which loop the condition comes after the body of the loop?	While...wend	Do..Loop..while	While	For..next
11.	A project file is saved with the given extension:	.vbp	.frm	.vb	.frvb
12.	Which control is used to display text or to accept user input?	Label	Text box	Button	Connector
13.	To exit Visual Basic:	Press Alt+Q	Press Alt+F4	Alt+F6	Ctrl+F4
14.	Lists of commands such as Open, Print and Exit can be found on:	Toolbar	Tool box	Menu bar	Explorer
15.	Visual-Basic is a :	Front-end	Back-end	Reformer	Designer



**Computer Science****H.S.S.C (12<sup>th</sup>)-A-2022**

Time : 2:10 Hours

Paper : II

Subjective

Marks : 60

**SECTION-B****MS-ACCESS**

(6 x 2 = 12)

2. Write short answers to any Six parts.
- How would you differentiate between tables and views?
  - How would you define End User?
  - How would you present the concept of Data Volume and usage analysis in physical database design?
  - How can you define about relationships in ERD?
  - Differentiate between Entity Integrity and Referential Integrity?
  - What is meant by mutually exclusive data?
  - Write down any two main uses of reports.
  - How would you distinguish between form and sub-form?
  - What are use of toolbars in MS Access?

3. Write short answers to any Six parts from "C-Language" OR "Visual Basic". (6 x 2 = 12)

**C-LANGUAGE****Visual Basic**

- Write down role of define directive.
- Write down the use of delimiters.
- Define variable declaration.
- How character constants are written in C-Language?
- Trace errors from following code;  

```
int marks=80
Char ch
```
- Write down a C statement that initialize a character variable with z.
- Define format specifier.
- Write down output of following code:  

```
printf("Name\t Roll No\n marks");
```
- Trace errors from following code;  

```
Char ch
ch = Getch();
```
- Define comboBox control.
- List down any four form methods.
- What is use of listBox control?
- Differentiate between event and event handler.
- Write down common properties of textBox.
- What is meant by context menu?
- Define PictureBox control.
- Define project explorer.
- How many ways to get input in visual basic, write their syntax?

4. Write short answers to any Six parts from "C-Language" OR "Visual Basic". (6 x 2 = 12)

**C-LANGUAGE****Visual Basic**

- What is compound statement?
- Find the output of code written below;  

```
int Z=11;
if (Z % 2 == 0)
    printf("even");
else
    printf("odd");
```
- What is sentinel loop?
- Find the output of code written below.  

```
int n;
for (n=0; n<5; n++)
    printf("%c", 'a'+n);
```
- Convert the following code into for loop;  

```
int c=0;
while (c < 10)
{
    printf("%d", c);
    c=c+2;
}
```
- What is function header?
- What is lifetime of a variable?
- Why return statement is used in functions?
- What is text stream?
- What is relational expression?
- What is the use of Goto statement in VB?
- Define protest loop.
- How Do....Until..... Loop works?
- Define module?
- What are procedure level variables?
- Define function procedure?
- What is meant by the term pass by value?
- What is the use of Exit Sub and Exit Function?

**SECTION - C****MS-ACCESS**

8x1=8

Note: - Attempt any one question.

- Write down four major components of database system in detail.
- What is Query? Discuss different types of queries.

**SECTION - D****C-LANGUAGE**

8x2=16

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

- Write down the step-by-step procedure to create a C-program? 8
  - Write a program in C-language that accepts three numbers from user and display the largest number using nested if. 8
  - What is nested loop? Write its syntax and explain its working with flowchart and example. 8
- VISUAL BASIC**
- How can we create a project in VB? Explain its different steps. 8
  - Write a program in VB that input three numbers by using three text box and display the largest number. 8
  - What is nested loop? Write its syntax and explain its working with flowchart and example. 8



**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 in your answer book. Use marker or pen to fill the circles. Cutting or filling up two or more circles will result no mark.**

Q.1	Questions	A	B	C	D
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**MS-ACCESS**

1.	Which data type can be used to define a field that contains data content such as chart, picture or graphic object?	Hyperlink	Memo	OLE Object	Auto Number
2.	A database consists of various components is called:	Tools	Properties	Entities	Objects
3.	Which form of dependency is removed in 2NF?	Functional	Transitive	Associative	Partial
4.	Organizing the database in computer disk storage is done in:	Logical design	Physical design	Analysis	Implementation
5.	The foreign key is found in:	Parent table	Dependent table	Pivot table	Index table
6.	Which of the given may be a temporary file?	Master file	Transaction file	Backup file	Data file

**C-LANGUAGE**

7.	The loop which never ends is called:	Infinite loop	Running loop	Continuous loop	Nested loop
8.	Function prototype for built-in functions are specified in:	Source file	Object file	Image file	Header file
9.	The output of compiler is called:	Library Code	Source Code	Linked Code	Object Code
10.	Another term for a computer making a decision is:	Sequential	Selection	Repetition	Iteration
11.	The function that is used to display output on screen is called:	printf	scanf	pow	display
12.	Which escape sequence is used to erase a character left to the cursor position?	\b	\del	\n	\f
13.	The data type which is used to store numeric value with no decimal point?	char	int	float	double
14.	Which of the given operators has lowest precedence?	=	==	!	+
15.	C was designed to write program for:	Windows Operating System	Solaris Operating System	Unix Operating System	OS/2 Operating System

**(SECTION – I)****MS-ACCESS****2. Write short answers to any Six parts.****(6 x 2 = 12)**

- i. Write any two responsibilities of a database administrator.
- ii. Define Primary Key.
- iii. Enlist different types of relationships.
- iv. What is the major objective of physical database design?
- v. Which database object stores the data in database?
- vi. Define Database Object.
- vii. What is linking in MS Access?
- viii. Differentiate between “\*” and “?” wild card.
- ix. How does an input mask help the user to enter data?

**C-LANGUAGE****3. Write short answers to any Six parts.****(6 x 2 = 12)**

- i. Write use of Turbo C++.
- ii. Why does machine language program execute faster?
- iii. Write short key for compiling and running a C-Program.
- iv. Differentiate between declaring and defining a variable.
- v. Define Logical Operator.
- vi. Write two rules for naming variables in C.
- vii. Write output of the following code:  

```
int a=1, b=6;
if(a+b<7)
printf(“%d”, a);
else
printf(“%d”,b);
```
- viii. Trace the output.  

```
if(1 == 2)
printf(“hello”);
else
printf(“welcome”);
```
- ix. Write down errors in the following:  

```
int x,y;
x=15
y=10
if(x/y=0);
printf(“ok”)
```

**C-LANGUAGE****4. Write short answers to any Six parts.****(6 x 2 = 12)**

- i. Enlist the symbols used as format specifier for different data types.
- ii. What is meant by escape sequences?
- iii. What is format string in scanf function?
- iv. Find the errors in following code segment:  

```
x=3.9, y=5.5
for(i =1; i <=10, i +)
printf(“%d and % f”, x,y)
```
- v. Determine the output of the following code segment, assuming m is 3 and n is 5:  

```
for(k=n; k>0;--k)
{
for(j=m;j>0; --j)
{
printf(“*”);
}
printf(“\n”);
}
```
- vi. Write the output of the following program fragment:  

```
int k=0;
while (k<=5)
{
printf(“%3d%3d\n”,k,10-k)
k++;
}
```
- vii. What is difference between function declaration and function header?
- viii. Define Global Variables.
- ix. What is meant by Binary Stream?

**SECTION – II****MS-ACCESS****Note: - Attempt any one question.**

5. Define Database. Discuss the objectives of the databases. 8
6. When is a relation in first normal form? Explain with example. 8

**SECTION – III****C-LANGUAGE****Note: - Attempt any two questions.**

7. What is a programming language? Discuss the two main categories of programming languages. 8
8. Define and explain If-else Statement. 8
9. Write a program that prints even numbers between (1 to 100) using for loop. 8



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 with marker or pen. Cutting or filling two or more circles will result in zero mark in that question.

(ATTEMPT EITHER FROM ' MS- ACCESS & C-LANGUAGE ' OR FROM ' MS-ACCESS & VISUAL BASIC ' )

MS - ACCESS

- Which data type is the default type?  
(A) memo (B) number (C) text (D) auto number
- Which of the following is correct association?  
(A) file = column (B) record = row (C) field = row (D) record = table
- Which of the dependencies is removed in 2NF?  
(A) functional (B) transitive (C) associative (D) partial
- All the hardware costs are considered during  
(A) project planning (B) requirement analysis (C) feasibility study (D) data analysis
- A table should have:  
(A) primary key (B) secondary key (C) composite key (D) sort key
- Which of the following is also known as data set:  
(A) record (B) field (C) file (D) module

C - LANGUAGE

- Function used to write a string to a file is :  
(A) fputc ( ) (B) fgetc ( ) (C) putc ( ) (D) fputs ( )
- Multiple assignment functions are separated by:  
(A) commas (B) semicolons (C) colons (D) commas
- In a 'for' statement, this expression is executed only once.  
(A) test (B) initialization (C) validation (D) increment / decrement
- Which statement uses a loop to terminate early?  
(A) break (B) terminate (C) exit (D) stop
- If a relational expression is true, it has value:  
(A) 1 (B) 0 (C) 2 (D) 0
- The case block ends with  
(A) end select (B) end case (C) break (D) default
- An escape sequence begins with a character:  
(A) \ (B) / (C) / (D) //
- $a + b$  is equivalent to:  
(A)  $b + a$  (B)  $a + b$  (C)  $a = a + b$  (D)  $b = b + a$
- The ".exe" file is produced by  
(A) linker (B) loader (C) compiler (D) interpreter

OR

VISUAL BASIC

- To represent current location of scroll box in scroll bar, we use property:  
(A) value (B) width (C) win (D) index
- Multiple arguments to functions are separated by:  
(A) comments (B) semicolons (C) colons (D) commas
- In a 'for' statement, this expression is executed only once.  
(A) test (B) initialization (C) validation (D) increment / decrement
- A loop within a loop is called:  
(A) nested (B) inner (C) outer (D) upper
- Relational operators are used to:  
(A) add (B) multiply (C) increase (D) compare
- Symbol < > in decision structure means:  
(A) less or equal to (B) greater or equal to (C) not equal to (D) equal to
- The default message box style is :  
(A) Yes No (B) Ok Only (C) Yes No cancel (D) Retry cancel
- Integer data type occupies the number of bytes:  
(A) 12 (B) 16 (C) 4 (D) 1
- Methods characterize an object's  
(A) behaviour (B) appearance (C) value (D) style

**Computer Science**(INTER PART II CLASS 12<sup>th</sup>)

Time : 2 : 10 Hours

(New Scheme)

Academic Session 2017-19

Marks : 60

Paper : II

**SUBJECTIVE****Note:-** Either from "MS-Access & C-Language" or from "MS-Access & Visual Basic"**( Section - I )****MS - ACCESS****2. Write short answers to any Six parts:**

( 6 x 2 = 12 )

- Distinguish between DBMS and data base.
- What is the use of data dictionary?
- Define foreign key.
- What is the purpose of analysis?
- When is a relation in 3NF?

- When does an insertion anomaly occur?
- What is the use of scrollbars?
- Define the term degree of relation.
- What is a switch board?

**C - LANGUAGE****3. Write short answers to any Six parts:**

( 6 x 2 = 12 )

- What is high level language?
- Define object code.
- What is arithmetic expression?
- Write a statement to declare an integer variable  
i initialized to -1
- Determine the output of following code  
int b = 9;  
b = b/2;  
printf(" %d ", b);  
Write the use of operators.

- Find the error in the following code:  
Void main ( )  
{  
int c = 7  
Printf ("%f", C);  
}

- Write the purpose of "%c" format specifier.
- Rewrite the following code after correction.  
float f = 3.14  
printf ("%d", f);
- What is the output of following code segment?  
Printf (" % .3 f", 1.2);

**OR**  
**VISUAL BASIC****3. Attempt any Six parts**

( 6 x 2 = 12 )

- Where comments can be added in program?
- Define assembly.
- How variable is declared in VB?
- How can you place a control in the center of the form?
- What is design time and run time?

- What do you know about class library?
- What does an object consist of?
- Why is the user interface important part of software?
- Why is it necessary to test a program?

**4. Attempt any Six parts**

( 6 x 2 = 12 )

- What is control structure?
- Convert the following code to an equivalent if - else statement. Answer = (x > y)? x \* y : x + y;
- What will be the output of the following?  
int X = 10;  
(x%2 == 0)? Printf C "Even" : printf ("odd");
- What is counter control loop?
- Convert the following code into while loop.  
int i;  
for(i = 1; i <= 10; i++)  
{  
Printf ("\n Pakistan");  
}

**C - LANGUAGE**

- What will be the output of the following.  
Char C = 'A';  
do  
{  
Printf ("%C", C);  
C = c + 2;  
}

While ( C L = 'I');

- What is meant by scope of variable?
- Give an example of user defined and built in function.
- What is meant by fgets function?





## Sahiwal Board-2019

OR

Attempt any Six parts

( 6 x 2 = 12 )

4.

### VISUAL BASIC

- |  |  |
|--|--|
| i. What is if statement?   | vi. Distinguish between 1-Dimension and 2-Dimension array. |
| ii. Why if – else statement is used?                             | vii. How subscript variable are written?                   |
| iii. Differentiate between Do ... Loop and a For .....Next loop? | viii. Define string.                                       |
| iv. Define loop.   | ix. How value is returned to the function?                 |
| v. What is nested loop?  |  |



### Section-II

### MS - ACCESS

Note:- Attempt any One question.

- |  |   |
|--|---|
| 5. Define database system. Discuss four major components of database system. | 8 |
| 6. What is filter? Discuss different types of filters in MS Access.          | 8 |

### C - LANGUAGE

Note:- Attempt any Two questions:

- |  |   |
|--|---|
| 7. What are logical operators? Discuss different logical operators with truth table. | 8 |
| 8. Define nested if statement. Explain with the help of diagram and example.         | 8 |
| 9. Write a program that print odd numbers from 11 to 49 using loop.                  | 8 |

OR

### VISUAL BASIC

Note: Attempt any Two questions:

- |   |   |
|---|---|
| 7. What are logical operators? Discuss different logical operators with truth table.            | 8 |
| 8. Define nested if – then statement. Explain its working with the help of diagram and example. | 8 |
| 9. Write a program that print odd numbers from 11 to 49 using loop.                             | 8 |



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 with marker or pen. Cutting or filling two or more circles will result in zero mark in that question.

(ATTEMPT EITHER FROM ' MS- ACCESS & C-LANGUAGE ' OR FROM ' MS-ACCESS & VISUAL BASIC ' )

MS - ACCESS

- I. i. The process of arranging data in a logical sequence is called  
(A) sorting (B) summarizing (C) data capturing (D) classifying
- ii. The foreign key is found in  
(A) parent table (B) pivot table (C) dependent table (D) index table
- iii. Which of the following is used to associate entities with one another?  
(A) attribute (B) relationship (C) identifier (D) object
- iv. In relational database, a table is also called  
(A) tuple (B) file (C) schema (D) relation
- v. Microsoft access saves the database with the extension  
(A) .msdb (B) .mdb (C) .madb (D) .mxls
- vi. The default field size of a text data type field is  
(A) 2 (B) 5 (C) 20 (D) 50

C - LANGUAGE

- vii. The output of the compiler is  
(A) library code (B) linked code (C) object code (D) source code
- viii. The number of bytes used by int data type in C is  
(A) 2 (B) 4 (C) 6 (D) 8
- ix. Which of the following escape sequence can be used to begin a new line in C ?  
(A) \a (B) \b (C) \m (D) \n
- x. The programming structure used for a computer making a decision is  
(A) sequential (B) selection (C) repetition (D) iteration
- xi. Switch statement is an alternative of  
(A) nested if - else (B) if - else (C) for loop (D) while loop
- xii. Which of the following is called counter loop?  
(A) while loop (B) do - while loop (C) for loop (D) nested loop
- xiii. Which statement is used to move the control to the start of loop body?  
(A) break (B) continue (C) default (D) switch
- xiv. The first line of function definition is known as  
(A) function body (B) arguments (C) function header (D) return type
- xv. Which of the following function is used to copy a string to an array of characters?  
(A) strcpy (B) strpcy (C) strycp (D) copy

ORVISUAL BASIC

- vii. The rectangle symbol in a flow chart indicates  
(A) condition (B) input (C) process (D) output
- viii. All the following are examples of control except  
(A) property (B) label (C) text box (D) button
- ix. The naming prefix for a label control is  
(A) lab (B) lbe (C) leb (D) lbl
- x. Which of the following is not a control structure in visual basic?  
(A) sequence (B) iteration (C) selection (D) repetition
- xi. Which of the following is a logical operator?  
(A) AND (B) > (C) + (D) =
- xii. The visual basic project is saved with extension  
(A) .Exe (B) .frm (C) .vbp (D) .com
- xiii. The naming prefix for a text box control is  
(A) lab (B) txt (C) tex (D) lbl
- xiv. The MOD operator in VB is used for  
(A) exponentiation (B) division (C) integer remainder (D) multiplication
- xv. Variable and constant names cannot contain a (n):  
(A) period (B) letter (C) underscore (D) number



**SUBJECTIVE**

Note:- Either from "MS-Access & C-Language" or from "MS-Access & Visual Basic"  
(Section - I)

**MS - ACCESS**

(6 x 2 = 12)

2. Write short answers to any Six parts:

- Define data file.
- List any two file types from usage point of view.
- Write down the basic purpose of using views.
- What is the purpose of analysis?
- Describe the term homonym.

- What is meant by referential integrity?
- Differentiate between database and table.
- What is the use of datasheet view in MS. Access?
- Differ between combo box and list box.

**C - LANGUAGE**

(6 x 2 = 12)

3. Write short answers to any Six parts:

- Why does machine language program execute faster?
- Write shortcut keys for compile and execute a C program.
- Define syntax error with example.
- Define keyword with example.
- Write the use of operators.

- Write output of following code  

```
Int x = 4 * 5 / 2 + 9 ;
Print f ( " %d" ; x ) ;
```
- Why is the ampersand (&) used in scanf function;
- Trace errors in following code.  

```
void main ( )
{
x = 20 ;
y = 40 ;
x + y = z
print f ( " %d" ; z )
}
```
- Write the output of following code.  

```
int a , b , c ;
a = 5 ;
b = 10 ;
c = a + b ;
print f ( " The sum of a + b = %d" , C ) ;
```

**OR  
VISUAL BASIC**

(6 x 2 = 12)

- What is purpose of language processor?
- Define properties window.
- List four events in Visual Basic.
- Write the purpose of assignment operator in VB.
- Define logical operators in Visual Basic.

- Define Do - until loop.
- Differentiate between inner and outer loop.
- Write about manipulation of array.
- List three uses of array.

(6 x 2 = 12)

**C - LANGUAGE**

- Convert the following loop into do - while loop.  

```
int x ;
for ( x = 0 ; x <= 10 ; x ++ )
print f ( " %d" , x % 2 ) ;
```
- Differentiate between actual and formal parameters.

- What is the purpose of f gets ( ) function?

- Compare local variable and global variable.



- Determine the output.  

```
int x = 1 , y = 2 , z = 3 ;
If ( ( x == y ) ( y == z ) ( z == 2 ) )
print f ( " yes" ) ;
else
print f ( " No" ) ;
```
- Find errors  

```
int x ;
If ( x = 1 or 2 )
print f ( " %d" , x ) ;
```
- Define post - test loop.
- Determine the output.  

```
Int i = 1 ;
While ( i < 10 )
{
print f ( " %d" , i ++ ) ;
}
```



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OR

( 6 x 2 = 12 )

Attempt any Six parts

### VISUAL BASIC

- i. How are instructions executed in sequence structure?
- ii. Determine the output of the following code  
DIM K As Integer, m As Integer  
K = 7  
m = K mod (k - 3)  
print K & " And" & m
- iii. Find errors in the following code  
DIM Z As Integer  
Z = 49  
If Z mod 2 equal to 0  
then print " Even"
- iv. What is nested loop?
- v. Determine the output.  
For I = 1 to 6 step 2  
Print I  
Next
- vi. Write the difference between pre-test and post – test loops.
- vii. What is meant by user defined function?
- viii. Differentiate between local and global variable.
- ix. What is a text file?

### Section-II

#### MS - ACCESS

Note:- Attempt any One question.

5. Define data modeling? Describe its components in detail. 8
6. What is query? Explain any three types of queries. 8

#### C - LANGUAGE

Note:- Attempt any Two questions:

7. Write down the rules for naming variables in C – Language. 8
8. Write a program that inputs a character from user and displays whether it is vowel or not (using switch statement)  $1 + 1 + 1 + 1 + 4 = 8$
9. What is while loop? Explain its working with the help of example and flowchart.  $2 + 2 + 2 + 2 = 8$



OR

### VISUAL BASIC

Note: Attempt any Two questions:

7. Write down the rules for naming variables in visual basic. 8
8. Write a program in VB that inputs three numbers from user and finds the maximum number among them.  $1 + 1 + 6 = 8$
9. What is while – wend loop? Explain its working with the help of an example and flowchart. 8