

Paper Code Number: 4835	2023 (1 st -A) INTERMEDIATE PART-II (12 th Class)	Roll No: _____
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COMPUTER SCIENCE PAPER-II *M/TN-12-23*

TIME ALLOWED: 20 Minutes **OBJECTIVE** **MAXIMUM MARKS: 15**

Q.No.1 You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that bubble in front of that question number, on bubble sheet. Use marker or pen to fill the bubbles. Cutting or filling two or more bubbles will result in zero mark in that question.

(Either from "MS-ACCESS & C-LANGUAGE" OR from "MS-ACCESS & VISUAL BASIC")

MS-ACCESS

S.#	QUESTIONS	A	B	C	D
1	Which of the following is an example of one-to-one relationship?	Student-Reg. No.	Person-Automobile	Mother-daughter	Person-Phone No.
2	No attribute of a primary key should contain null values:	Data integrity	Entity integrity	Referential integrity	Null integrity
3	Which wildcard replaces one character only?	FL * JDY.C	: FGS	???.CO ?	FGSTU ! .COM
4	Which type of forms useful to display data from tables and queries that have one-to-many relationship?	Sub-form	Main form	Multi form	Inserted form
5	Which of the following is not an objective of DBMS?	Shareability	Evolvability	Availability	Feasibility
6	Create command is used to create:	Record	View	Report	Query

C-LANGUAGE

7	The expression 10%3 has a value equal to:	1	2	3	4
8	The escape sequence used to begin a new line in C-Language.	\a	\n	\b	\m
9	All of the following are control statements except:	Sequential	Repetition	Selection	Relation
10	The semicolon is placed at the end of condition in:	While loop	Do-while loop	Do loop	for-Next loop
11	The scope of a variable refers to its:	Length	Name	Accessibility	Data type
12	Which short key is used to view output screen?	Alt + F1	Alt + F3	Alt + F5	Alt + F7
13	The output of a compiler is called:	Library code	Source code	Linked code	Object code
14	The logical not operator, denoted by!, is a:	Unary operator	Binary operator	Ternary operator	Bit wise operator
15	The variable names cannot contain a(n):	Number	Underscore	Letter	Period

OR
VISUAL BASIC

7	Which of the following is a valid VB data type?	Boolean	int	Char	float
8	The entire select case construct is terminated with:	Case else	End select	End if	Stop select
9	All of the following are logical operators except:	OR	AND	NOT	<
10	The loop which never ends:	Continuous loop	Infinite loop	Running loop	Controlled loop
11	Which keyword is used to increment a counter by a value that you specify?	interval	skip	step	Next
12	That program which translates assembly source code to machine code:	Compiler	Interpreter	Assembler	Debugger
13	Which of the following is not a VB control?	Command button	Forms	Textbox	Variable
14	Methods characterized an object's:	Behaviour	Appearance	Value	Style
15	The expression 3 mod 5 has a value equal to:	0	1	2	3

INTERMEDIATE PART-II (12 th Class)	2023 (1 st -A)	Roll No:
COMPUTER SCIENCE PAPER-II	MTN-12-23	
TIME ALLOWED: 2.10 Hours	SUBJECTIVE	MAXIMUM MARKS: 60
NOTE: Write same question number and its parts number on answer book, as given in the question paper.		

SECTION-I

(Either from "MS-ACCESS & C-LANGUAGE" OR from "MS-ACCESS & VISUAL BASIC")

2. Write short answers to any six parts. MS-ACCESS 6 × 2 = 12

(i) Define DBMS.	(ii) Distinguish between primary key and foreign key.
(iii) List any two properties of a relation.	(iv) What do you mean by entity integrity?
(v) Define synonym.	(vi) Write any two advantages of forms.
(vii) Define the term degree of a relation.	(viii) List out four data types available in MS-Access.
(ix) Differentiate between combo box and list box.	

3. Write short answers to any six parts C-LANGUAGE 6 × 2 = 12

(i) What is statement terminator?	(ii) Differentiate between linker and loader.
(iii) What is source program?	(iv) What is runtime error?
(v) What is standard identifier?	(vi) What will be the value of X (integer variable)? X = 1 + 2%3 - 3;
(vii) What will be the output of the following code? <pre>int x = 10, y = ++x; x = y--; printf("%d", y);</pre>	(viii) Trace error from the following code: <pre>int room #; printf("%d", 5);</pre>
(ix) Differentiate between character constant and string.	

3. Write short answers to any six parts OR VISUAL BASIC 6 × 2 = 12

(i) What is project explorer?	(ii) How does focus event work in VB?
(iii) Write down the syntax of Mouse Move event.	(iv) Differentiate between modal and modeless form.
(v) Write down two event names of keyboard.	(vi) What is caption property of button?
(vii) Which event does occur when a form is removed from memory?	(viii) What is the purpose of control menu?
(ix) What is the format of hexadecimal value of color in VB?	

4. Write short answers to any six parts C-LANGUAGE 6 × 2 = 12

(i) What does happen if & sign is missed in scanf() function?	(ii) List any four input functions?
(iii) Trace the output of the following code segment: <pre>int a, b, c; a = 3; b = a++; c = ++a; printf("%d %d %d", a, b, c);</pre>	(iv) Convert the following code in do while() loop: <pre>int a; for (a = 1; a <= 25; a++) { printf("%d \n", a*a); a++; }</pre>
(v) Define control structure.	(vi) Write an expression in C-language for the following: temperature is less than 40.00 and greater than 25.00
(vii) Which part of loop does contain the statements to be repeated?	(viii) What is counter controlled loop?
(ix) Trace the output of the following code segment: <pre>int k=8, m=7, z; z = k < m ? k++ : m++; printf("%d", z);</pre>	

4. Write short answers to any six parts OR VISUAL BASIC 6 × 2 = 12

(i) How does Select --- Case statement help in coding?	(ii) What is relational expression?
(iii) Describe intrinsic controls.	(iv) Differentiate between array and variable
(v) Name any two styles of combo boxes.	(vi) What is iteration?
(vii) Write down the criteria for using Do---Until loop.	(viii) Which function does load a picture at run time?
(ix) Define Binary Search.	

SECTION-II

MS-ACCESS

NOTE: Attempt any one question.

5. What is File traditional processing system? Write down it's disadvantages in detail.	8
6. Draw and explain ER diagram for the system of getting admission in a college.	8

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

C-Language

7. What is "switch" statement? Explain its working with flowchart and example.	8
8. Write a program in C-language which does display the sum of following series using any loop. $1 + \frac{1}{2} + \frac{1}{4} + \frac{1}{6} + \dots + \frac{1}{100}$	8
9. Briefly describe the process of writing a function in C-Language.	8

OR VISUAL BASIC

7. What is "Select---Case" structure? Explain its working with flowchart and example.	8
8. Write a program in VB which does display the sum of following series using any loop. $1 + \frac{1}{2} + \frac{1}{4} + \frac{1}{6} + \dots + \frac{1}{100}$	8
9. Briefly describe the process of writing a function in Visual Basic?	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 bubble in front of that question number, on bubble sheet. Use marker or pen to fill the bubbles. Cutting or filling two or more bubbles will result in zero mark in that question. No credit will be awarded in case BUBBLES are not filled. Do not solve question on this sheet of OBJECTIVE PAPER.

Q.No.1

(Either from "MS-ACCESS & C-LANGUAGE" OR from "MS-ACCESS & VISUAL BASIC")

MS-ACCESS

- (1) SQL is a:
(A) Unstructured language (B) Structured language (C) Object oriented language (D) Software
- (2) INSERT command is used to insert:
(A) A new table (B) A new record (C) A view (D) Dependencies
- (3) Which of the following key does not hold uniqueness property?
(A) Candidate key (B) Foreign key (C) Primary key (D) Secondary key
- (4) Every relation must have a:
(A) Primary key (B) Candidate key (C) Secondary key (D) Composite key
- (5) Microsoft Access saves the database with the extension:
(A) .mdb (B) .msdb (C) .madb (D) None of these
- (6) How many table views are available in MS Access?
(A) 4 (B) 3 (C) 2 (D) 1

C-LANGUAGE

- (7) Debug is the process of:
(A) Creating bugs in program (B) Identifying and removing errors (C) Identifying errors (D) Removing errors
- (8) Preprocessor directives are commands for:
(A) Microprocessor (B) Language processor (C) C preprocessor (D) Loader
- (9) Which of the following operator has lowest precedence?
(A) ! (B) + (C) = (D) ==
- (10) Variables are created in:
(A) RAM (B) ROM (C) Hard Disk (D) Cache
- (11) getch () is a part of:
(A) Stdio (B) Conio (C) math (D) All these
- (12) The case block ends with:
(A) End select (B) End case (C) break (D) Case else
- (13) Which of the following operator is used after label in goto statement?
(A) Comma (B) Colon (C) Semi colon (D) dot
- (14) Global variables are created in:
(A) RAM (B) ROM (C) Hard disk (D) Cache
- (15) An array subscript should be:
(A) int (B) float (C) double (D) an array

OR VISUAL BASIC

- (7) Which of the following is example of windows dialog?
(A) Forecolor (B) Color (C) Disable (D) Dialog
- (8) Which method is used to delete an item from list box?
(A) Add Item (B) Delete Item (C) Remove Item (D) Clear Item
- (9) Which of the following is not a control?
(A) Label (B) Button (C) Menu (D) Textbox
- (10) Which of the following method is used to display message?
(A) MsgBox (B) Message (C) Msg (D) Display
- (11) Shortcut key for adding menu in form is:
(A) Ctrl + A (B) Ctrl + E (C) Ctrl + Z (D) Ctrl + F
- (12) The default message box style is:
(A) Yes No (B) Yes No Cancel (C) Ok only (D) Retry Cancel
- (13) In the statement lblName.Text, lblName is:
(A) Property (B) Control (C) Method (D) Event
- (14) Methods characterize an object's:
(A) Behavior (B) Style (C) Value (D) Appearance
- (15) Which of the following keyword is used for variable declaration in VB?
(A) Dim (B) Declare (C) Create (D) Store

INTERMEDIATE PART-II (12th CLASS)

COMPUTER SCIENCE PAPER-II

SUBJECTIVE

MAXIMUM MARKS: 60

TIME ALLOWED: 2.10 Hours

NOTE: Write same question number and its part number on answer book, as given in the question paper.

SECTION-I

(Either from "MS-Access & C-Language" or from "MS-Access & Visual Basic").

Write short answers to any six parts.

MS-ACCESS

6 x 2 = 12

- Describe Candidate and Alternate keys.
- What is Foreign Key?
- What is the purpose of Feasibility study?
- Write the major objective of Physical database design.
- Define referential integrity.
- When is a relation in first Normal Form?
- Why form object of database is used?
- What is Datasheet Form?
- Write the main uses of Reports.

Write short answers to any six parts.

C-LANGUAGE

6 x 2 = 12

- What do you mean by machine independence?
- Define include directive.
- What does it mean by "C is a case sensitive language"?
- Write down any two rules for naming variables in C.
- Write C statement to declare integer variable X and assign value 8 to x (in a single statement).
- Trace errors in the following:


```
char ch1 = a
char ch2 = b
(ch1 ≠ ch2)
```
- Differentiate between `getch ()` and `getche ()` function.
- Trace output


```
float a = -17.245;
printf ("%8.3f", a);
```
- Trace error from the following:


```
#include <stdio.h>;
void main ( )
{
    int x = 5;
    10 + 5 = x;
}
```

OR VISUAL BASIC

3. Write short answers to any six parts.

6 x 2 = 12

- What is graphical user interface?
- Write four advantages of visual programming.
- What is expression in VB?
- How to add comments in VB?
- Write VB statement to declare a constant.
- Trace errors in the following:


```
dim ch as string;
ch = Pakistan;
```
- What is use of timer control?
- Trace output


```
dim x as real = 8.3
print (x + 5.4)
```
- Trace error in the following:


```
sub 7star ( )
redim x as int
end of sub.
```

P.T.O.

4. Write short answers to any six parts. C-LANGUAGE

6 x 2 = 12

- What happens if break is missed in case blocks?
- Predict the output of the following code:


```
int price = 10;
if (price != 10)
    price = 0;
else
    price * = 20;
printf ("%d", price);
```
- Describe sentinel loop.
- Trace the output of the following code:


```
int K;
for ( K = 0; K <= 5; K += 4)
    printf ("%d", K);
```
- Convert the following for loop into do-while loop.


```
int K;
for ( K = 0; K <= 5; K += 4)
    printf ("%d", K);
```
- Differentiate between formal parameter and actual parameter.
- Describe function prototype.
- How is a function activated?
- What is a file pointer?

OR VISUAL BASIC

4. Write short answers to any six parts.

6 x 2 = 12

- What is Select --- Case structure?
- Define control structure.
- Differentiate between TO and IS keywords in case form.
- Describe logical operators.
- What is Counter Variable?
- When should we use Do---Until---loop?
- What step value is used if it is not specified in For---Next loop?
- Differentiate between a Do---Loop and a For---Next loop.
- Describe Intrinsic controls.

SECTION-II

MS-ACCESS NOTE: Attempt any one question.

- Define file. Describe the file types from usage point of view. 8
- What is table/relation? Write any four characteristics of table in detail. 8

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

C-LANGUAGE

- What necessary steps taken to prepare a C program for execution? Explain with diagram. 2+2+2+2 = 8
- Write a program that inputs three numbers and find the largest number. Using nested if. 8
- What is for loop? Write its syntax. Explain its working with an example. 8

OR

VISUAL BASIC

- Differentiate between procedural and non-procedural language. 8
- Write a program in Visual Basic that inputs three numbers and find the largest number using Nested if. 8
- What is for---next loop? Write its syntax. Explain its working with an example. 8

COMPUTER SCIENCE

PAPER-II

TIME ALLOWED: 20 Minutes

OBJECTIVE

MAXIMUM MARKS: 15

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 bubble in front of that question number, on bubble sheet. Use marker or pen to fill the bubbles. Cutting or filling two or more bubbles will result in zero mark in that question. No credit will be awarded in case BUBBLES are not filled. Do not solve question on this sheet of OBJECTIVE PAPER.

Q.No.1

MS-ACCESS

- (1) SQL stands for:
- (A) Unstructured Language (B) Structured Query Language
(C) Object Oriented Language (D) Software
- (2) Who is responsible to design, implement and maintain a databases?
- (A) Database administrator (B) End users (C) Application programmer (D) Web designer
- (3) An entity related to itself in an ERD Model refers to:
- (A) One-to-many relationship (B) Recursive relationship
(C) Many-to-many relationship (D) One-to-one relationship
- (4) Different attributes in two different tables having same name are referred to as:
- (A) Synonym (B) Acronym (C) Mutually exclusive (D) Homonym
- (5) A database consists of various components called the:
- (A) Tool (B) Properties (C) Objects (D) Entities
- (6) In a relational database, a single piece of information is called:
- (A) Field (B) Record (C) Entity (D) Tuple

C-LANGUAGE

- (7) Every C program must have:
- (A) scanf function (B) getche function (C) main function (D) print function
- (8) Turbo C++ can compile:
- (A) Assembly program (B) C++ programs only (C) Machine program (D) C and C++ programs
- (9) Which of the following is a valid character constant?
- (A) "b" (B) a (C) '6' (D) =
- (10) Which of the following data type offers the highest precision?
- (A) float (B) long int (C) long double (D) unsigned long int
- (11) The escape sequence for new line:
- (A) \n (B) \t (C) \b (D) \f
- (12) The format specifier %c is used for
- (A) Integers (B) float (C) double (D) character
- (13) How many kinds of control structures are there to organize program instructions?
- (A) 3 (B) 2 (C) 4 (D) 5
- (14) Which of the following is a loop statement?
- (A) while (B) if (C) if-else (D) nested if
- (15) printf() is a:
- (A) local function (B) user defined function (C) keyword (D) built-in function

INTERMEDIATE PART-II (12th CLASS)

COMPUTER SCIENCE PAPER-II

TIME ALLOWED: 2.10 Hours

SUBJECTIVE

MAXIMUM MARKS: 60

NOTE: Write same question number and its part number on answer book, as given in the question paper.

SECTION-I

2. Answer briefly any Six parts from the following:

6 × 2 = 12

MS-ACCESS

- (i) What do you mean by composite key? (ii) Define End User.
 (iii) Write the purpose of Modality. (iv) Describe Project Planning.
 (v) List advantages of MS-ACCESS. (vi) How MS-ACCESS existing from Windows?
 (vii) What are relationships? (viii) Write two differences between relationship and join.
 (ix) Define Tabular form.

3. Answer briefly any Six parts from the following:

6 × 2 = 12

C-LANGUAGE

- (i) What are Syntax Errors? (ii) What is #include Directive? Give an example.
 (iii) Differentiate between Linker and Loader. (iv) What are Logical operators? Name any two.
 (v) What are Identifiers? (vi) Write two rules for Naming Variables.
 (vii) Find error: (viii) Trace output:

```
int x;
scanf ("%d", s x);
if (x%2 = 0)
printf ("Even Number")
```

```
int price = 19;
if (price! = 10)
printf ("Yes");
```

(ix) Trace output:

```
int x = 1, y = 2, z = 3;
if ((x == y) || (y == z) || (z == 2))
printf ("Yes");
else
printf ("No");
```

4. Answer briefly any Six parts from the following:

6 × 2 = 12

C-LANGUAGE

- (i) List any four escape character provided by C. (ii) Write down the use of "getch" function.
 (iii) Why is the ampersand (&) used in scanf function?
 (iv) Predict the output of the following code segment:

```
int n;
for (n = 1; n <= 12; n = n + 4)
printf ("%d", n);
```

(v) Predict the output of the following code segment:

```
int x = 3;
while (x <= 12)
{
printf ("x is %d \n", x);
x = x + 2;
}
```

(vi) Find the errors from the following code segment:

```
int x = 1;
while (x <= 6);
{
printf ("%d", x);
x++;
}
```

(vii) Define function. (viii) Compare local and global variable. (ix) Define Newline marker.

SECTION-II

NOTE: Attempt any one question.

8 × 1 = 8

MS-ACCESS

5. Define database model. Discuss different types of database models.
 6. What is normalization? Explain three forms of normalization.

SECTION-III

NOTE: Attempt any two questions.

8 × 2 = 16

C-LANGUAGE

7. Define programming language. Describe the characteristics of high level programming languages.
 8. Write the general form of if statement with multiple alternatives. Draw flow chart and explain its working?
 9. Write a program that get starting and ending numbers then print counting in between these numbers using while loop.

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 bubble in front of that question number, on bubble sheet. Use marker or pen to fill the bubbles. Cutting or filling two or more bubbles will result in zero mark in that question. No credit will be awarded in case BUBBLES are not filled. Do not solve question on this sheet of OBJECTIVE PAPER.

Q.No.1

(Either from "MS-ACCESS & C-LANGUAGE" OR from "MS-ACCESS & VISUAL BASIC")

MS-ACCESS

- (1) A table must have:
(A) Secondary key (B) Primary key (C) Composite key (D) Sort key
- (2) In ERD Model, the relationship between two entities is represented by a:
(A) Diamond symbol (B) Rectangular box (C) Oval symbol (D) Line
- (3) The output of a query is in the form of a:
(A) Table (B) Form (C) Report (D) Query
- (4) A query that involves two tables is called:
(A) Select (B) Cross Table (C) Update (D) Insert
- (5) The layout of report are:
(A) 3 (B) 2 (C) 4 (D) 5
- (6) Which Auto Form displays one record at a time?
(A) Tabular (B) Columnar (C) Datasheet (D) Justified

C-LANGUAGE

- (7) Void occupy how many bytes in memory?
(A) Zero (B) One (C) Two (D) Four
- (8) $a+=b$ is equivalent to:
(A) $b+=a$ (B) $a=+b$ (C) $a=a+b$ (D) $b=b+a$
- (9) The symbol '=', represents:
(A) Comparison operator (B) Assignment operator (C) Equal-to-operator (D) Balance operator
- (10) The function getch () is a part of:
(A) Stdio.h (B) String.h (C) Math.h (D) Conio.h
- (11) The format specifier %u is used for:
(A) Integer (B) Unsigned short (C) unsigned float (D) unsigned long int
- (12) Conditional operator is an alternative of:
(A) if (B) if-else (C) nested if (D) Case
- (13) There are three expressions in for loop statement separated by:
(A) Comma (B) Colon (C) Semicolon (D) Fullstop
- (14) The printf is a:
(A) Built-in-function (B) Keyword (C) User-defined-function (D) Local function
- (15) A file is stored in:
(A) RAM (B) Hard Disk (C) ROM (D) Cache

ORVISUAL BASIC

- (7) We can hide a tool window automatically with a(n):
(A) Select Auto Hide (B) Close Button (C) End (D) break
- (8) Which method loads a form in memory and displays it on screen?
(A) Load (B) Unload (C) Show (D) Lock
- (9) The method characterize an object's:
(A) Style (B) Behavior (C) Value (D) Appearance
- (10) Data can be entered in a control only when it has:
(A) Mask (B) Control (C) Charged (D) Focus
- (11) The data type that can handle decimal places is:
(A) Short (B) Double (C) Integer (D) Boolean
- (12) The option that forces the declaration of all variables is:
(A) Implicit (B) Option-explicit (C) Shell (D) Forced
- (13) The Modulus operator is used for:
(A) Multiplication (B) Division (C) Remainder (D) Range
- (14) A comment is preceded by:
(A) Apostrophe (B) Parenthesis (C) Comma (D) Semicolon
- (15) A file is stored in:
(A) RAM (B) Hard Disk (C) ROM (D) Cache

INTERMEDIATE PART-II (12th CLASS) (SPECIAL EXAMINATION)**COMPUTER SCIENCE PAPER-II****SUBJECTIVE**

MAXIMUM MARKS: 60

TIME ALLOWED: 2.10 Hours

NOTE: Write same question number and its part number on answer book, as given in the question paper.

SECTION-I

(Either from "MS-Access & C-Language" or from "MS-Access & Visual Basic").

2. Write short answers to any six parts. **MS-ACCESS** 6 x 2 = 12

- Differentiate between master file and transaction file.
- Write down any two responsibilities of a database administrator.
- Define entity. Give an example.
- What do you mean by redundancy?
- List any two advantages of reports.
- Name any two methods for creating tables in MS-Access.
- Define Filter.
- How is combo box used?
- List any two types of reports in MS-Access.

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

- Define bug and debugging.
- List any three data types in C.
- What is the use of AND operator?
- Differentiate between Unary and Binary Operator.
- Describe Format Specifier.
- How string values are printed in C - Language?
- Trace out errors from the following code:

```
Void main [ ]
{
    int x = 20;
    x + 4 = x;
    printf ("%d", n);
}
```

- Predict the output of the following code segment:

```
int a = 9;
a = a % 4;
printf (" %d", a);
```

- What is the output of the following code segment?

```
int x = 10, y = 20, z = 30;
x = x + y;
y = y + z;
z = x - y;
printf (" Result = %d %d %d", x, y, z);
```

OR VISUAL BASIC3. Write short answers to any six parts. **6 x 2 = 12**

- Write two disadvantages of Visual Programming.
- What is problem solving?
- List advantages of Algorithm.
- Write the benefits of managed code.
- What is garbage collection?
- What happens when you hide a form?
- Define object and control.
- Name major parts of Visual studio IDE.
- What is the purpose of control naming conventions?

P.T.O.

(2)

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

- Define while statement.
- Write a note on goto statement.
- Define function header.
- Differentiate between local and global variable.
- Write down types of functions.
- What is meant by text stream?
- Determine output of following code:

```
int x = 10;
int y = 20;
if (x > 20 && y > 20)
    printf ("Hello");
else
    print ("World");
```

- Determine output of following code:

```
int x = 10;
switch (x)
{
    case 5:
        printf ("five is given");
    default:
        printf ("other");
}
```

- Define strepy () function in C - Language.

OR VISUAL BASIC

4. Write short answers to any six parts. 6 x 2 = 12

- Define MDI form.
- Define toolbar in visual basic.
- How executable file is created in visual basic?
- Describe shortly layout window.
- Write down two properties of combo box.
- What is meant by option explicit?
- Differentiate between event and event-handler.
- Define VbLeft Button-constant in visual basic.
- How many ways to get input from user in visual basic?

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

- What are the advantages & disadvantages of the DBMS? 4 + 4 = 8
- What is functional dependency? Describe anomalies with respect to third Normal Form. 2+2+2+2 = 8

C-LANGUAGE NOTE: Attempt any two questions.

- What is bug? Discuss briefly how many types of errors can occur in C - Language? 2+2+2+2 = 8
- What is Switch Statement? Write its syntax. Explain its working with example. 2 + 2 + 4 = 8
- Write a program that displays counting from 1 to 10 using while loop. 8

OR**VISUAL BASIC NOTE: Attempt any two questions.**

- What is bug? Discuss briefly how many types of errors can occur in Visual basic? 8
- What is select-case structure? Write its syntax. Explain its working with example. 2 + 2 + 4 = 8
- Write a program that displays counting from 1 to 10 using while-wend loop. 8