

INTERMEDIATE PART-II (12th CLASS)**COMPUTER SCIENCE PAPER-II (NEW SCHEME)**

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

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

2. Attempt any six parts.**MS-ACCESS****6 x 2 = 12**

- (i) What is the main purpose of database system?
- (ii) Why is report generator used in database system?
- (iii) What is the basic purpose of using views?
- (iv) How is database integrity maintained?
- (v) Define synonym.
- (vi) Differentiate between partial dependency and transitive dependency.
- (vii) Define the term table in database.
- (viii) What is database wizard?
- (ix) Which control is used to execute commands in MS-Access forms?

3. Attempt any six parts.**C-LANGUAGE****6 x 2 = 12**

- (i) How is a header file included in C-program?
- (ii) Why main function is used in C-program?
- (iii) Define an identifier with example.
- (iv) Predict the output of following code segment:


```
int x = 7;
int y = 3;
printf ("%d and %d", x/y, x % y);
```
- (v) Initialize three variables T_1, T_2, T_3 in a single line by assigning values 48, 45 and 39 respectively.
- (vi) Find errors in following code segment


```
void main (void);
{int c = 7
 printf ("%f",c;
}
```
- (vii) Differentiate between printf and scanf functions.
- (viii) Write a C-statement which scans three floating point variables a, b and c in a single line.
- (ix) Determine the output of the following code segment:


```
float f = 3.14159;
printf ("f = %4.2f", f);
```

OR**VISUAL BASIC****3. Attempt any six parts.****6 x 2 = 12**

- (i) Define executable file in Visual Basic.
- (ii) Differentiate between "Key down" and "Key up" events.
- (iii) What is Variable declaration?
- (iv) How do you define operator precedence?
- (v) Declare and initialize three variables T_1, T_2 and T_3 by assigning values 48, 50 and 32 respectively.
- (vi) What mathematical operators are used in Visual Basic?
- (vii) Define "Concatenation" with an example.
- (viii) How would you define relational operators?
- (ix) What is the use of "NOT" operator?

P.T.O.

4. Attempt any six parts.

- (i) Define compound statement.
- (ii) Write a C-statement that assigns 1 to the variable y if the value of the variable x is greater than 0. Otherwise, it assigns -1 to the variable y .
- (iii) What will be the output of the following:

```
char c = 'a';
switch ( c )
{
case 'a'
printf ("a");
default:
printf ("Not a" );
}
```
- (iv) Define infinite loop.
- (v) Change the following while loop to for loop:

```
int c = 0;
while ( cc = 5)
{
printf ("%d\n",C);
c++;
}
```
- (vi) What will be the output of the following:

```
int c = 1;
do
{
printf ("%d", c)
}
while ( c++ c = 4);
```
- (vii) What do you know about user defined function?
- (viii) Define Local Variable.
- (ix) How is the end of text file indicated?

OR**VISUAL BASIC**

6 x 2 = 12

4. Attempt any six parts.

- (i) Define Logical Operator.
- (ii) What is goto statement?
- (iii) Differentiate between Counter and Conditional loop.
- (iv) Define Do-Loop structure.
- (v) What is Iteration?
- (vi) Explain array manipulation.
- (vii) What is control array?
- (viii) How does an array differ from simple variable?
- (ix) Define user-defined function.

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

5. Write any four advantages of DBMS. 8
6. Discuss different methods of modifying a table in MS-Access. 8
- C-LANGUAGE NOTE: - Attempt any two questions.**
7. Write any eight characteristics of C-Language. 8
8. What is if-else statement? Draw its flow chart, also explain its working with an example. 8
9. Write a program in C that inputs a number from the user and displays the table of that number using for loop. 8

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

7. Write a program to swap the value of two variables without using third variable. 8
8. What is if-then-else statement? Draw its flow chart, also explain its working with an example. 8
9. Write a program in VB that inputs a number from the user and displays the table of that number using For---Next loop. 8

COMPUTER SCIENCE PAPER-II (NEW SCHEME)

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 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. Attempt as many questions as given in objective type question paper and leave others blank. No credit will be awarded in case BUBBLES are not filled. Do not solve questions 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) A table must have:
(A) Primary Key (B) Secondary Key (C) Composite Key (D) Sort Key
- (3) E-R diagram represents:
(A) Attribute (B) Relationship (C) Cardinals (D) Entity
- (4) Which form of dependency is removed in 3 N.F?
(A) Functional (B) Non-functional (C) Associative (D) Transitive
- (5) MS-Access saves the database with extension:
(A) .mdb (B) .msdb (C) .madb (D) .mxls
- (6) Which of the following Menues is used to switch between table?
(A) Edit (B) File (C) Tools (D) View

C-LANGUAGE

- (7) C is a:
(A) High Level language (B) Low Level Language (C) Assembly Language (D) Machine Language
- (8) The left side of an assignment statement holds:
(A) Variable (B) Constant (C) Expression (D) Digit
- (9) The functions used for input and output is stored in:
(A) Stdio.h (B) Conio.h (C) Math.h (D) Inout.h
- (10) The case block ends with:
(A) End select (B) End Case (C) break (D) Case Else
- (11) Which operator in C is called a ternary operator?
(A) If (B) b++ (C) ? : (D) ()
- (12) In which loop the condition comes after the body of the loop?
(A) for (B) while (C) do while (D) nested
- (13) The loop which never ends is called:
(A) Infinite loop (B) Running loop (C) Continuous loop (D) Nested loop
- (14) Global variables are created in:
(A) Ram (B) Rom (C) Hard disk (D) Cache
- (15) In the statement File*FP, The* represent:
(A) Variable (B) Parameters (C) Arguments (D) Pointer

OR**VISUAL BASIC**

- (7) Visual Basic is:
(A) High Level language (B) Low Level Language (C) Assembly Language (D) Machine Language
- (8) The left side of an assignment statement holds:
(A) Variable (B) Constant (C) Expression (D) Digit
- (9) Which of the following is an optional element of an event procedure?
(A) End sub (B) Handles (C) Object-Event (D) Statement
- (10) Each element in a control array is identified:
(A) Test Index (B) Tab Index (C) Index (D) Subscript
- (11) The default message box style is:
(A) Yes No (B) Yes No cancel (C) Ok only (D) Retry cancel
- (12) In which loop the condition comes after the body of the loop?
(A) for --- next (B) while-end while (C) do while (D) nested
- (13) What is the name of a program that translates VB code to object code?
(A) Interpreter (B) Assembler (C) Compiler (D) Debugger
- (14) Which is not a property of the common controls?
(A) Hide (B) Name (C) Back color (D) Fore color
- (15) Which events is activated when a radio button is selected?
(A) Selected changed (B) Selection changed (C) Checked (D) Checked changed

INTERMEDIATE PART-II (12th CLASS)**COMPUTER SCIENCE PAPER-II (OLD SCHEME)**

TIME ALLOWED: 3.10 Hours

SUBJECTIVE

MAXIMUM MARKS: 83

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").

MS-ACCESS**2. Attempt any Eight parts.****8 x 2 = 16**

- | | |
|---|---|
| (i) Define Database. | (ii) Describe Data redundancy. |
| (iii) What is Sequential File? | (iv) Who is Data administrator? |
| (v) State the purpose of Analysis. | (vi) List any two types of Anomalies. |
| (vii) Describe the Homonym. | (viii) What is MS-Access? |
| (ix) Define Database Object. | (x) List the two types of filters used in DBMS. |
| (xi) Describe the use of Columnar Form. | (xii) What is Linking in form? |

3. Attempt any Eight parts.**8 x 2 = 16****C-Language**

- | | |
|--|---|
| (i) What is Compiler? | (ii) Define Source Code. |
| (iii) What is an executable file? | (iv) Why is C known as strongly typed Language? |
| (v) Define Variable Initialization. | |
| (vi) Determine output of the following code:
int x = 7, y = 3;
printf (" %d %d", x/y, x%y); | (vii) Find errors in the following code:
Float x, y;
x = y = 3.5;
x + y = 7.0; |
| (viii) Define Standard Output. | (ix) Write the purpose of '\r' escape sequence. |
| (x) Determine output of the following code:
printf ("\\ \\ \\ \\"); | |
| (xi) Determine output of the following code:
char x = 'x', y = 'y', z = 'z';
z = x + y;
printf ("%c %c %c", x, y, z); | |
| (xii) Find errors in the following code:
int x = 10, y = 20;
y = +2;
x = +y;
printf ("%d %d", x, y); | |

OR**VISUAL BASIC**

- | | | |
|---|--|-----------------------------------|
| (i) What is Compiler? | (ii) Define Source code. | (iii) What is an executable file? |
| (iv) Why is program should be maintained and updated? | | |
| (v) Which language is used to write an algorithm? | | |
| (vi) Determine output of the following code:
Dim x As Integer
x = 7 \ 3
print x | (vii) Find errors in the following code:
Dim x As Float
x = 3.5
x + x = 7.0 | |
| (viii) Define event and method. | (ix) What is the purpose of control naming conventions? | |
| (x) Determine output of the following code:
Print "Hello" & "World"
Print "Hello" & "World" | | |
| (xi) Determine output of the following code:
Dim x As String
x = x + "x"
print x | | |
| (xii) Find errors in the following code:
Dim x As Integer
x = 79
x = x % 10
printf x | | |

4. Attempt any six parts.**6 x 2 = 12****C-Language**

- (i) Define Compound Statement.

P.T.O

(2)

- (ii) Determine the output of following code segment:


```
int x = 10;
(x%2==0? printf("odd"));
```
- (iii) Find errors in following code:


```
if ( x = 1 or 2)
printf (%d, x);
```
- (iv) What is sentinel controlled loop?
- (v) Predict the output of following code:


```
int x = 10;
for ( x = 8; x >= 1; x --)
printf ("%d", x%2);
```
- (vi) Convert the following do-while loop into for loop:


```
int c = 2;
do
{
printf ("%d", c);
}
while ( c++ <= 5 );
```
- (vii) List any three benefits of using functions in C.
- (viii) Name any four built-in functions commonly used in C program.
- (ix) Which variable is used to store memory address?

OR VISUAL BASIC

- (i) What is the use of NOT operator?
- (ii) Find output of following code:


```
Dim x, y as integer
x = 20
y = 6
if x <= y then
print "Small Number"
else
print "Large Number"
```
- (iii) Find errors in following code:


```
IF y! = 5 then
print 'Hellow Friend
END
```
- (iv) What step value is used if it is not specified in For-Next Loop?
- (v) Find output of following code:


```
I = 1
Do
Print I & VB New line
I = I + 1
Loop while i <= 10
```
- (vi) Convert following code into For-Next loop:


```
n = 1
Do
print n
n = n + 1
Loop until ^ 75
```
- (vii) List any two properties of check box control.
- (viii) Define Form-level variables.
- (ix) State the lifetime of a local variable

SECTION-II (Essay Type)

NOTE: - Attempt any one question.

MS-ACCESS

- 5. What is Key? Describe three types of keys used in database. 2 + 2 + 2 + 2 = 8
- 6. What is Table? Explain different types of table views in MS-Access. 2 + 3 + 3 = 8

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

- 7. Write down the basic structure of C-language. Explain its different parts. 1 + 1 + 2 + 2 + 2 = 8
OR Visual Basic
 Write necessary steps taken to develop a V.B program. 2 + 2 + 2 + 2 = 8
- 8. Write a program in C-Language that inputs three numbers from user and displays the minimum number. 8
OR Visual Basic
 Write a program in Visual Basic that inputs three numbers from user and displays minimum number. 8
- 9. Define "while" loop. Give its syntax and flow chart. Explain its working with the help of an example. 8
OR Visual Basic
 Define "while" loop. Give its syntax and flow chart. Explain its working with the help of an example. 8

SECTION-III (PRACTICAL)

Attempt any three parts of the questions.

3 × 5 = 15

- 10. (i) Write a procedure to create a Table in MS-Access.
- (ii) Write a procedure to create a form by using Wizard.
- (iii) Write a program in C-Language or Visual Basic that inputs two integers and displays the sum of these integers.
- (iv) Write a program in C-Language or Visual Basic that inputs an integer and display table of that integer.
- (v) Write a program in C-Language or Visual Basic that calculates the factorial using function.

COMPUTER SCIENCE PAPER-II (OLD SCHEME)

TIME ALLOWED: 20 Minutes

OBJECTIVE

MAXIMUM MARKS: 17

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. Use marker or pen to fill the bubbles. Cutting or filling two or more bubbles will result in zero mark in that question. Attempt as many questions as given in objective type question paper and leave others blank. No credit will be awarded in case BUBBLES are not filled. Do not solve questions on this sheet of OBJECTIVE PAPER.

Q.No.1 (Either from "MS-ACCESS & C-LANGUAGE" OR from "MS-ACCESS & VISUAL BASIC")

MS-ACCESS

- (1) Organizing of data into classes or groups are called:

(A) Sorting	(B) Summarizing	(C) Capturing	(D) Classifying
-------------	-----------------	---------------	-----------------
- (2) Create command is used to create a:

(A) Table	(B) View	(C) Report	(D) Query
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- (3) Feasibility study is also called:

(A) Preliminary Investigation	(B) Analysis	(C) DED	(D) Testing
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- (4) In 3NF, a non-key attribute must not depend on a:

(A) Sort key	(B) Composite key	(C) Non-key attribute	(D) Key attribute
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- (5) Microsoft Access saves the database with the extension:

(A) .mdb	(B) .msdb	(C) .mdb	(D) .mcd
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- (6) Design view provides the tool for creating _____ in a table.

(A) Table	(B) Field	(C) Record	(D) Relation
-----------	-----------	------------	--------------
- (7) A single record is displayed at one time with labels in:

(A) Justified Form	(B) Columnar Form	(C) Tabular Form	(D) Datasheet Form
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C-Language

- (8) Crtl + F9 is used to _____ the C-program. (A) Execute (B) Compile (C) Save (D) Open
- (9) "scanf" is an example of:

(A) Function	(B) Standard identifies	(C) User define identifier	(D) Variable
--------------	-------------------------	----------------------------	--------------
- (10) "% d" format specifier is used for:

(A) Short data type	(B) Float data type	(C) Single data type	(D) String data type
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- (11) "\t" is a:

(A) Format specifier	(B) Data type	(C) Escape sequence	(D) Square root
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- (12) Logical operators are of _____.

(A) 2-types	(B) 3-types	(C) 4-types	(D) 7-types
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- (13) if-else statement is used to specify _____ different choices.

(A) Two	(B) Three	(C) Four	(D) Five
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- (14) In do-while loop, variable is initialized _____ the body of loop.

(A) Inside	(B) Outside	(C) Between	(D) Exit
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- (15) A loop inside the body of another loop is called:

(A) Nested-if	(B) For loop	(C) Nested loop	(D) While loop
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- (16) In C, Functions are of _____ types. (A) Five (B) Four (C) Three (D) Two
- (17) On successfully closing a file, the fclose () returns: (A) 0 (Zero) (B) 1 (C) 2 (D) 4

OR**VISUAL BASIC**

- (8) Properties are the:

(A) Characteristics of a control	(B) Events	(C) Methods of a control	(D) Style
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- (9) A function that imparts some action to an object is called:

(A) Control	(B) Method	(C) Property	(D) Style
-------------	------------	--------------	-----------
- (10) The property that changes the text color is:

(A) Fore color	(B) Font color	(C) Text color	(D) Back color
----------------	----------------	----------------	----------------
- (11) Variable names cannot begin with:

(A) Underscore	(B) Uppercase letter	(C) Number	(D) Lower case letter
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- (12) A string literal must be enclosed in:

(A) Single quotes	(B) Double quotes	(C) Hash number	(D) Underscore
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- (13) The default message box style is:

(A) Ok only	(B) Yes No	(C) Yes cancel	(D) No cancel
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- (14) An expression consists of:

(A) Control	(B) Operand & operators	(C) Back color	(D) Labels
-------------	-------------------------	----------------	------------
- (15) An Assignment statement will:

(A) Perform calculation	(B) Store result	(C) Assign result of calculation	(D) Delete result
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- (16) The MOD operator is used for:

(A) Exponentiation	(B) Multiplication	(C) Division	(D) Remainder
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- (17) To display a message, _____ function is used.

(A) Msg Box	(B) Input Box	(C) Message	(D) Text
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BOARD OF INTERMEDIATE AND SECONDARY EDUCATION, MULTAN
OBJECTIVE KEY FOR INTERMEDIATE ANNUAL EXAMINATION, 2019

Name of Subject: CST
 Group: 1st, "NEW Scheme"

Session: _____
 Group: 2nd, "OLD Scheme"

Q. Nos	Paper Code	Paper Code	Paper Code	Paper Code
	4831	4833	4835	4837
1	B	A	A, B, C, D	A
2	A	D	D	A, B, C, D
3	A, B, C, D	B	A	D
4	D	A	D	A
5	A	A, B, C, D	B	D
6	D	D	A	B
7	A	A	C	A, B
8	A	A	C	C
9	A, B	D	A	C
10	C	A	A	C
11	C	A	D	A
12	C	A, B	A	A
13	A	C	A	D
14	A	C	A, B	A
15	D	C	C	A
16	_____			
17	_____			
18	_____			
19	_____			
20	_____			

Q. Nos	Paper Code	Paper Code	Paper Code	Paper Code
	8831			
1	D			
2	A			
3	A			
4	C			
5	C			
6	B			
7	B			
8	A			
9	A, B			
10	A			
11	C			
12	B			
13	A			
14	B			
15	C			
16	D			
17	A			
18	_____			
19	_____			
20	_____			