INTERMEDIATE PART-II (12ᵗʰ CLASS)

COMPUTER SCIENCE PAPER-II   (NEW SCHEME) (SESSION 2015-2017)

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)   Describe Data Capturing.

    (ii)   List down two features of DBMS.

    (iii)   Give one example of one – to – one relationship.

    (iv)   Define Indexes.

    (v)   How first normal form is achieved?

    (vi)   What is Normalization?

    (vii)   Differentiate between Menu bar and Toolbar.

    (viii)   Define Degree of Relation.

    (ix)   Write definition of Reports.

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

    (i)   Define Structured Programming.

    (ii)   Define Constant Macro.

    (iii)   What is a Computer Program?

    (iv)   Define Data Type. Give example.

    (v)   Which operators are used to evaluate compound condition?

    (vi)   Trace the output of the following:-

```
x = 5;
y = x++;
Printf ("%d %d", x, y);
```

    (vii)   Write C statement to input value of integer variable x.

    (viii)   Write output of the following code

```
int n = -25.41;
Printf ("%6.2f", n);
```

    (ix)   Trace error in the following code

```
Void main ( ) ;
{
        Float x;
        Printf (Input value) ;
        Scanf ("% d", x);
}
```

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

    (i)   Why break statement is used in a switch structure?

    (ii)   Show output:-

```
int p = 10;
if ( p! = 10 )
    p = 0;
else
    pt = 5;
```

    (iii)   Find errors:

```
Void main ( )
{
        int a ; b ;
        a = 10, b = 5
        if ( a = < b )
        printf ('A is less then B');
        getch ( );
}
```

    (iv)   What is Sentinel Controlled Loop?

    (v)   Show output:

```
int m;
for (m = 0; m > = 0; m++)
printf (" % d \t", m );
```

    (vi)   Convert into while loop code:-

```
for ( i = 3 ;  i <= 9;  i += 3 )
{
        printf (" * \t * \t * \n ") ;
}
```

    (vii)   Define Function Declaration or Function prototype.   (viii) State the use of Formal Parameters.

    (ix)   How the end of Text file is indicated?

OR   VISUAL BASIC

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

    (i)   What is Net Platform?   (ii) Compare VB and VBA.   (iii) Define Programming Language.

    (iv)   Write use of Property Window.

    (v)   Describe purpose of Textbox.

(P.T.O.)

(vi)   Trace errors in the following:-

        Dim x integer

        $x + y = x$

        x = Input ("Enter value)

        Print = x

(vii)   How do we manage controls on the form?

(viii)   Write output of the following code:-

        Msg Box ("The sum =   " + 20);

(ix)   Trace error in the following const Dim x float:-

        $x + + = y,$

        print y ;

        $x + 4 = x$

4.   Attempt any six parts. $6 \times 2 = 12$

(i)   Differentiate between a Variable length string and Fixed length string.

(ii)   Show output:

        Dim C, D, E as integer

        $C = 15, \quad D = 42, \quad E = D, \quad D = C, \quad C = E$

        Print C

        Print D

(iii)   Find errors:

        Dem age as integer

        Dim address As string

        age = days/365;

        print age

(iv)   In Visual Basic, how select case helps in coding?

(v)   Define Toolbar in Visual Basic.

(vi)   Find errors:-

        Dim age as string

        IFF (age > 18) then

        Print "Boy"

        Else

        Print "Child"

(vii)   Can do until loop be written as pretest or post test?

(viii)   Show output:-

        Dim R As integer

        Dim i As integer

           $R = 0$

           $i = 1$

        Do while $i < = 5$

           $R = R + i$

           $i = i + 1$

        Loop

           Print R

(ix)   Convert into For – Next loop code:-

        $n = 1$

        while $n < = 5$

        print "Pakistan"

           $n = n + 1$

        Wend

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

5.   Explain components of Logical Database Model.   8

6.   What is Query? Discuss its uses and advantages.   8

C-LANGUAGE   NOTE: - Attempt any two questions.

7.   How many types of errors can occur in a C-language Program? Which one is the most difficult
     to find and remove?   8

8.   Write a program in C-Language that inputs years and check whether it is a leap year or not.   8

9.   Define do – while loop. Write its syntax. Explain its working with example.   8

OR   VISUAL BASIC   NOTE: - Attempt any two questions.

7.   Define Object Oriented Languages. Also discuss different features of Object Oriented Programming.   8

8.   Write a program in Visual Basic that inputs year and check whether it is a leap year or not.   8

9.   What is Do --- WHILE loop in Visual Basic? Write its syntax. Explain its working with example.   8

COMPUTER SCIENCE   PAPER-II (NEW SCHEME) (SESSION 2015-2017)
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 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) Duplicate data in multiple data file is called:-   (A) Data Redundancy
     (B) Data Integrity   (C) Data Inconsistency   (D) Program Dependence

(2) Views are also called:-
     (A) Complex tables   (B) Simple tables   (C) Virtual tables   (D) Actual tables

(3) _____ key does not hold uniqueness property.
     (A) Candidate   (B) Foreign   (C) Primary   (D) Secondary

(4) A report may be based on:-
     (A) Table   (B) Relationship   (C) Form   (D) Attribute

(5) _____ table views are available in Microsoft Access.
     (A) 1   (B) 2   (C) 3   (D) 4

(6) _____ auto form displays one record at a time.
     (A) Columnar   (B) Tabular   (C) Datasheet   (D) Justified

C-LANGUAGE

(7) The extension of C source program is:-
     (A) .h   (B) . C   (C) . obj   (D) . exe

(8) Variable name can not contain a (an):-
     (A) Letter   (B) Underscore   (C) Period   (D) Number

(9) _____ function is used to input data in C – program.
     (A) Printf ( )   (B) Scanf ( )   (C) gets ( )   (D) main ( )

(10) The only binary operator in the following is:-
     (A) ?   (B) ++   (C) --   (D) +

(11) Another term for a computer program in making a decision is called:-
     (A) Sequential   (B) Repetition   (C) Selection   (D) Iteration

(12) _____ loop structure always executes at least once.
     (A) Nested   (B) FOR   (C) While   (D) do while

(13) In a for statement, the expression is executed only once:-
     (A) Validation   (B) Initialization   (C) Test   (D) Condition

(14) Another name for built in function is called:-
     (A) Library function   (B) User defined function   (C) Arithmetic function   (D) Binary function

(15) In ___ file opening mode, data can only be read from an existing file.
     (A) W   (B) W+   (C) r+   (D) r

OR
VISUAL BASIC

(7) The Visual Basic project is saved with extension:-
     (A) . exe   (B) . Vbp   (C) . frm   (D) . Vb

(8) The number of bytes used by long integer in Visual Basic is:-
     (A) 1   (B) 2   (C) 4   (D) 8

(9) The val ( ) method is used to convert valid text data into the type:-
     (A) Single   (B) Double   (C) Integer   (D) Long Integer

(10) The unary operator in the following is:-
     (A) AND   (B) <>   (C) =   (D) NOT

(11) If $x = 50$ and $y = 10$, _____ will be the value of X after following expression $X = x + y * x$.
     (A) 450   (B) 500   (C) 550   (D) 600

(12) The value of x after the loop execution is   For $x = 2$ to 12 step 3.
     (A) 08   (B) 09   (C) 10   (D) 11

(13) The loop which never ends is called:-
     (A) Continuous loop   (B) Infinite loop   (C) Forever loop   (D) Running loop

(14) A variable declared in general declaration section of a form is called:-
     (A) Global variable   (B) Local variable   (C) Automatic variable   (D) Static variable

(15) _____ control is used for Yes/No option.
     (A) Option button   (B) List box   (C) Combo box   (D) OLE control

COMPUTER SCIENCE　PAPER-II　(NEW SCHEME) (SESSION 2015-2017)

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OR

VISUAL BASIC

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COMPUTER SCIENCE   PAPER-II   (NEW SCHEME) (SESSION 2015-2017)

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VISUAL BASIC

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INTERMEDIATE PART-II (12ᵗʰ CLASS)

COMPUTER SCIENCE PAPER-II   (OLD SCHEME) (SESSION 2012-2014)

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 Information.	(ii)	What are Check Boxes?
(iii)	Define View.	(iv)	Define Key.
(v)	Write the purpose of Feasibility Report.	(vi)	Why is requirement analysis conducted?
(vii)	How is entity integrity attained?	(viii)	Define Referential Integrity.
(ix)	Write any four advantages of IDE.	(x)	Define RDBMS.
(xi)	What is Datasheet View in MS-Access?		
(xii)	How is datasheet view different from table design view?		

3. Attempt any Eight parts.   8 x 2 = 16

C-Language

(i) What is a Programming Language?   (ii) Define Object Code.

(iii) Write down a preprocessor directive to include 'math.h' header file.

(iv) Write down two rules for naming variables.   (v) Why does integer overflow occur?

(vi) Find out errors in the following code:-

```
Float x, y,
Y = = 10.5;
```

(vii) Write down output of the following code:-

```
int num = 10;
num + = 10;
printf (" % d ", num) ;
```

(viii) Why ampersand (&) sign is used in scanf ( ) function?

(ix) Differentiate between getch ( ) and getche ( ) function.

(x) Write down output of the following code:-

```
int num = 100;
printf ( " % + 5d " , num ) ;
```

(xi) Write down output of the following code:-

```
printf (" * \ n * * \ r * * * ") ;
```

(xii) Find out errors in the following code:-

```
Void main < > ;
{
    printf ( 'OK' ) ;
}
```

OR   **VISUAL BASIC**

(i) What is a Programming Language?   (ii) What is meant by Design time in Visual Basic?

(iii) How are Visual Basic Program run?   (iv) Write down two rules for naming variables.

(v) Why does integer overflow occurs?

(vi) Find out errors in the following code:-

```
Dims X, Y as integer
X = Input Box (O, "Enter an Integer");
```

(vii) Write down output of following code:-

```
Dim num as integer
num = 10
num = num + num * num
Msg Box ("The value of num is " & num )
```

(viii) Write down the syntax of Input Box ( ).

(ix) Why is default button used on form?

(x) Write down output of the following code:-

```
Dim n as integer
n = 10
print n \ 10
```

(xi) Write down output of the following code:-

```
Dim X, Y as integer
X = 20
Y = 6
Print " X \ Y = " & X | Y
Print " X Mod Y = " & X Mode Y
```

(xii)   Find out errors in the following code:-
    X as integer
    X = Con Int (Text Box 1.Text)

4. Attempt any six parts.   6 x 2 = 12

C-Language

(i)   Define Logical Operators.
(ii)   What is the use of if statement?
(iii) Convert the following code into While loop:-
    int j = 1;
    for (; j <= 4 ; j ++)
        printf (" % d ", j);
(iv)   Trace errors
    Float   a, b;
        a = 7.4 ;
        b = 8.3 ;
    printf (% d", a + b);
(v)   Trace output of the following code:-
    int x = 3;
    (x < 4)? printf ("Hello" : printf ("wold") ;
(vi)   Define Function Prototype.
(vii) Differentiate between Local and Global Variables.   (viii) What is Text File?
(ix)   Define control structure of C – Language.

OR

VISUAL BASIC

(i)   List any three data types of Visual Basic.   (ii) Distinguish between Message box and Input box.
(iii) Write any two methods of Form control.   (iv)   Define Subroutine in Visual Basic.
(v)   Differentiate between Method and Property.
(vi)   List Focus Events.   (vii) Write any two properties of Combo Box Control.
(viii) How an array is declared in Visual Basic.   (ix) What is Data file?

SECTION-II (Essay Type)

NOTE: - Attempt any one question.

MS-ACCESS

5.   What is a Relation? Write some properties of Relation.   2 + 2 + 2 + 2 = 8
6.   Explain the options in Find and Replace dialog box.   2 + 2 + 2 + 2 = 8

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

C-Language

7.   Explain the programming languages. Discuss two main categories of Programming Languages. 8
                            OR   Visual Basic
    Define Language Processor. Explain different types of Language Processors in Visual Basic.   8

C-Language

8.   Write a program in C – Language that inputs three numbers from user and
    display the minimum number.   8
                            OR   Visual Basic
    Write a program in Visual Basic that inputs three numbers from user and display
    the minimum number.   8

C-Language

9.   What is "While" Loop? Explain its working with example also write its syntax and draw flow chart. 8
                            OR   Visual Basic
    What is "DO–UNTIL" Loop? Explain its working with example.   8

SECTION-III (PRACTICAL)

Attempt any three parts of the questions.   3 × 5 = 15

10.   (i)   Describe the procedure for finding data in MS – Access.
      (ii)   Write the procedure to create form by using Wizard.
      (iii) Write a program in C – Language or Visual Basic that gets temperature from
             the user in Celsius and converts it into Fahrenheit using the formula F = 9/5 * C + 32
      (iv)   Write a program in C – language or Visual Basic that inputs a number from
             the user and display the factorial of that number.
      (v)   Write a program in C – Language or Visual Basic that inputs a number from the user
             And compute cube of a number using a function.

                                        36-2017(A)- 1000   (MULTAN)

INTERMEDIATE PART-II (12ᵗʰ CLASS)

COMPUTER SCIENCE   PAPER-II   (OLD SCHEME) (SESSION 2012-2014)
TIME ALLOWED: 20 Minutes   **OBJECTIVE**   MAXIMUM MARKS: 17

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

MS-ACCESS

(1) A collection of related fields is:-
(A) Character   (B) File   (C) Record   (D) Database

(2) _____ may be a temporary file.
(A) Master file   (B) Transaction file   (C) Backup file   (D) None of these

(3) The columns of a relation correspond to:-
(A) Table   (B) Record   (C) Field   (D) Cell

(4) _____ is not unique.
(A) Primary key   (B) Candidate key   (C) Foreign key   (D) Secondary key

(5) Every relation should have:-
(A) Primary key   (B) Candidate key   (C) Secondary key   (D) Mutually exclusive

(6) The data in tables is entered in:-
(A) Design view   (B) Normal view   (C) Datasheet view   (D) Layout view

(7) A form that contains a sub-form is called:-
(A) Form   (B) Main form   (C) Report   (D) Child form

C-Language

(8) A set of rules that must be followed by programmer to develop a program is called:-
(A) Syntax   (B) Preprocessor   (C) Bug   (D) Debug

(9) Variables are created in:-
(A) RAM   (B) ROM   (C) Hard Disk   (D) USB

(10) _____ variables can be used in one printf function.
(A) One   (B) Two   (C) Ten   (D) Many

(11) _____ represent new line character.
(A) \r   (B) \n   (C) \t   (D) None of these

(12) The three programming structures are:- (A) Sequence, Decision, Repetition
(B) Process, Decision, Alternation (C) Sequence, Definition, Process (D) Relation, Comparison, Process

(13) _____ is equivalent to (p >= q).
(A) $p < q$ (B) $!(p < q)$ (C) $p > q$ (D) $!(p > q)$

(14) One execution of a loop is known as a(n):-
(A) Cycle   (B) Duration   (C) Iteration   (D) Test

(15) A loop which never ends is called:-
(A) Running loop   (B) Continuous loop   (C) Nested loop   (D) Infinite loop

(16) A value that can be sent to a function is known as:-
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(17) A file is stored in:-   (A) RAM   (B) ROM   (C) Hard Disk   (D) Cache

OR   VISUAL BASIC

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COMPUTER SCIENCE   PAPER-II   (OLD SCHEME) (SESSION 2012-2014)

TIME ALLOWED: 20 Minutes   **OBJECTIVE**   MAXIMUM MARKS: 17

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C-Language

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OR   VISUAL BASIC

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BOARD OF INTERMEDIATE AND SECONDARY EDUCATION, MULTAN ✓

OBJECTIVE KEY FOR INTER (PART-I / II) Annual Examination, 2017.

Name of Subject **Computer Science** Session _____

Group: **1st New Scheme**   Group: **2nd old Scheme**

Q. Nos.	Paper Code 4831	Paper Code 4833	Paper Code 4835	Paper Code 4837	Q. Nos.	Paper Code 8831	Paper Code 8833	Paper Code 8835	Paper Code 8837
1.	A	B	B,D	C	1.	C	A	C	B
2.	C	A	A	B,D	2.	B	C	C,D	C
3.	B,D	A	B	A	3.	C	B	A	C,D
4.	A	C	A	B	4.	C,D	C	C	A
5.	B	B,D	A	A	5.	A	B	B	C
6.	A	A	C	A	6.	C	C	C	B
7.	B	B	C	B,C	7.	B	C,D	B	C
8.	C	A	D	D	8.	A	C	A	D
9.	B,C	D,A	B	C	9.	A	D	B	B
10.	D	B	A	D	10.	D	D	C	A
11.	C	C	D,A	B	11.	B	C	D	B
12.	D	B,C	B	A	12.	A	A	D	C
13.	B	D	C	D,A	13.	B	A	C	D
14.	A	C	B,C	B	14.	C	D	A	D
15.	D,A	D	D	C	15.	D	B	A	C
16.					16.	D	A	D	A
17.					17.	C	B	B	A
18.					18.				
19.					19.				
20.					20.				

PREPARED & CHECKED BY

Sr.No   Name   Designation   Institution   Mobile No.   Signature