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Note: This is Model Paper for guidance of students & teachers.

Model Paper Computer Science Objective

Intermediate Part – II (12ᵗʰ Class) Examination   Session 2012-2014 and onward

Total marks: 17   Paper Code_____   Time Allowed: 20 minutes

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.

(Note: Serial No. 8 to 17 Ist question relates to C Language & IInd question relates to Visual Basic)

Q. 1	QUESTIONS	(A)	(B)	(C)	(D)
1	The process of arranging data in logical sequence is called	Sorting	summarizing	data computing	classifying
2	Create command is used to create	table	view	query	report
3	Which of the following is used to associate entities one another	Entity	attribute	identifier	relationship
4	In 2NF which form of dependency is removed	functional	partial	associate	transitive
5	Each set of related items in a table is called	Table	record	Field	query
6	How many table views are available in Microsoft Access	1	2	3	4
7	All of the following are form layout except	Tabular	columnar	justified	relationship
8	a+=b is equal to **OR** Visual Basic is product of:	b+=a Microsoft	a=+b IBM	a=a+b Sun System	b=b+a Hewlett
9	In C Language expression 9/5*2 evaluates **OR** A project file is saved with the following extension:	3.6 .frm	0.6 .vbp	0 .vb	2 .frx
10	Which of the following function is used to input data in C program **OR** Methods characterize an object's :	scanf Appearance	printf Value	get() Style	getch() Behavior
11	Which of the following format specifier is used for string **OR** The property that changes text color is :	.% f BackColor	% d FontColor	% s ForeColor	% c TextColor
12	Which programming structure executes program started in order **OR** A memory location with some data that can be changed is called:	Relation Constant	Decision variable	Sequence Named constant	Repetition Symbolic constant

Result.PK

13	The case block ends with OR Which of the following is not arithmetic operators:	end select +	Endcopy -	Break mod	Stop &
14	How many types of loop structure are available in C OR Another term used for making a decision is :	4 Sequential	3 Selection	2 Repetition	6 Iteration
15	Which is the final value of x after executing following code: for(int x=0; x<10; x++) OR In if statement ,true is represented by:	10 0	9 1	0 2	1 3
16	Global variable are created in OR The keyword that makes the end of a Do structure is:	RAM END DO	ROM EXIT DO	hard disk Loop	Cache End While
17	An array subscript should be OR What is the default lower bound of an array?	Int -1	Float 0	Double 1	Char Any value

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Model Paper Computer Science Subjective

Intermediate Part – II (12ᵗʰ Class) Examination   Session 2012-2014 and onward

Total marks: 83   **Time: 3:10 hours**

SECTION - I

2. **Write answers of any Eight questions.**   (8 x 2 = 16)
   (i)   Describe data manipulation.
   (ii)   State the use of Query language.
   (iii) List different objectives of the databases.
   (iv)   Who is data administrator?
   (v)   Define foreign key?
   (vi)   How a relation is formed in database?
   (vii) What is meant by file organization?
   (viii) Define the term redundancy.
   (ix)   Write down major database objects in MS ACCESS.
   (x)   Write some advantages of using MS ACCESS IDE.
   (xi)   Describe field property.
   (xii) Differentiate between Combo box and List box.

3. **Write answers of any Eight questions.**   (8 x 2 = 16)

   (Note: In each option Ist question relates to C Language & IInd question relates to Visual Basic)

   (i)   How does a compiler work?

                              OR

          Describe OOP.
   (ii)   Write shortcut key to compile C program.

                              OR

          Why Visual Basic is called event driven language?
   (iii) Give an example of preprocessor directive.

                              OR

          What do you know about code window in Visual Basic?
   (iv)   What is variable initialization?

                              OR

          What is the purpose of Val function?
   (v)   List at least four data types used in C Language.

                              OR

          List at least four data types used in Visual Basic.
   (vi)   How are comments added on multiple lines?

                              OR

          How comments are added in Visual Basic?
   (vii) Differentiate between 'area' and area.

                              OR

          What is the output of 10 * 2 ^ 2 ?
   (viii) What do you know about format specifier?

                              OR

          Define event. Give at least two examples of events.
   (ix)   Write C statement to print the value of an integer n.

                              OR

          Differentiate between Properties and Methods.
   (x)   Describe the use of ampersand($) in scanf function.

                              OR

          How does an option button differ from check box?
   (xi)   Find the errors in the following code
          Main (); {
          PRINTF("HELLO")   }

                              OR

          What is the size of twip?
   (xii) Determine the output of the following code segment.
          float p = 3.14159;
          printf("p=%5.1f",p);

                              OR

          What is the purpose of control naming conventions?

4. Write answers of any six questions.   (6 x 2 = 12)

(Note: In each option Ist question relates to C Language & IInd question relates to Visual Basic)

(i)   Write an expression in C language for " Number is divisible by 5".
                                    OR
      Write an expression in Visual Basic for " Number is divisible by 5".

(ii) Define Control structure.
                                    OR
      Define Control structure.

(iii) What is conditional operator? Write the syntax of conditional operator.
                                    OR
      Describe Relational operators in Visual Basic.

(iv) What is use of "if-else" statement.
                                    OR
      Write the syntax of IF . . . THEN Structure in Visual Basic.

(v)   Write two uses or advantages of loop.
                                    OR
      What do know about Do . . . Loop . . . Until ?

(vi) Define sentinel value.
                                    OR
      Differentiate between outer and inner loop in Visual basic.

(vii) What is the scope of local variables?
                                    OR
      What is standard code module?

(viii) Define function. Why is it used in a program?
                                    OR
      What is the use of function procedure?

(ix) What is the use of file pointer?
                                    OR
      List file modes for data files in Visual Basic.

SECTION II (Essay Type)

Note:- Attempt any one question.   (8×1=08)

MS - ACCESS

5. What is ER diagram? Explain with the help of an example.   [8]

6. Discuss different data types available in MS Access.   [8]

SECTION II (Essay Type)

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

7.   (8×2=16)

C- Language
Briefly describe the basic structure of a C program.   [8]

------------------- OR -------------------- Visual Basic
Write a detailed note on Components or elements of Visual Basic IDE.   [8]

8.

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C- Language

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What is "switch " statement? Explain its working with example. [8]

------------------ OR ------------------- **Visual Basic**

Explain Select . . . Case Structure with its working [8]

9.

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C- Language

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Define for loop. Explain its working with example. [8]

------------------ OR ------------------- **Visual Basic**

What is meant by pretest and posttest in loop? Explain with a suitable example [8]

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SECTION III (PRACTICAL)

Attempt any Three parts of the question.   [3 x 5 = 15]

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10.

(i)   Explain the procedure to extract data from multiples tables.

(ii)   What are check boxes and option buttons? Explain the procedure of adding these objects to a form.

(iii)   Write a program that inputs 4 numbers, calculate their sum, average and product of these numbers in C Language or in Visual Basic.

(iv)   Write a program that inputs a number from the user and display a table of that number using for loop in C Language or using For . . . Next Loop in Visual Basic.

(v)   Write a program that inputs two numbers in main function. Passes these numbers to a function. The function displays the maximum number in C Language or in Visual Basic.