COMPUTER SCIENCE 2015 Max. Marks: 15 Time: 20 Minutes (PROGRAMMING USING 'C') OPTION - I

- SECTION "A" (MULTIPLE CHOICE QUESTIONS) Choose the correct answer for each from
- the given options: The statements within any C function must be enclosed within a pair of:
- The collection of related fields is called a: (ii) Record • Field • Database • Attribute The default case in the switch statement is: (iii)
- Optional Compulsory Occasional Relational The for loop counter variables should be of this type: (iv)
- int Char Float A field is sometimes called an/a: (V)
- File Attribute Record Database (vi)An object whose value can be changed during the
- program execution is called: Symbol • Variable • Constant • Operator
- To control the spacing and number of characters is (vii) displayed by:
 - Field-width specifier Precision specifier Format specifier Escape sequence
- This database object is used to present data in a printed (viii) format:
- Table Query Form Report The memory space required for a float is: (ix)
- 2 bytes 8 bytes 1 byte 4 bytes A function which invokes itself is called: (X)
- Recursive function

 System function

 Library function

 Iterative function
- In database, records are also called: (xi) Attributes • Entities • Tuples • Relations
- This is the symbol of AND operator: (xii) • && • & • (xiii)
- The control structure use do-whole loop is: Sequence • Selection • Iteration • Random (xiv)
- This symbol in a flow chart represents a process: Rectangle • Oval • Circle • Diamond (xv) The comment begins with the characters set of:
- COMPUTER SCIENCE2015 Time: 2 Hours 40 Minutes
- Marks: 60 (PROGRAMMING USING 'C') SECTION B (SHORT-ANSWER QUESTIONS)(36)

NOTE: Answer 6 questions from this section.

- What is the purpose of the statement #include<stdio.h> 2.(i) in a C program? What is statement terminator? (ii) Define logical operators in C language.
- (ii) Differentiate between while loop and the do-whole loop. (iv) What are escape sequences? Give an example. List some of the advantages of database management (v)
- system. (vi) Write the full form of the following acronyms: DML, DDL, SQL, IDE, RDBMS, DBA
- (vii) What is a key field? Why is it important in DBMS? (viii) Write a program that reads radius of a circle and displays the circle/s area. Use this formula Area = Pl x
 - radius x radius where Pl is the constant whose value is 3.14159.
- (ix) Rewrite the following mathematical expressions using C function:
- (a) $\sqrt{x+y} \, x \, z^3$ (b) $\sqrt{(a-b)^3}$ (c) $ab-\frac{U}{V}$ SECTION'C' (DETAILED- ANSWER QUESTIONS)
- NOTE: Answer 2 question from this section.(24 Explain the use of nested if-else statement. 3.(a) Write a program that reads three numbers and prints the

(b)

4.(a)

(b)

(i)

(ii)

(iv)

(X)

(xii)

Host variable

largest.

Time: 20 Minutes

cube of a given number. 5.(a) Explain various types of Database model. What are the commonly used input/output functions in (b) C? How are they accessed?

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(PROGRAMMING USING VISUAL BASIC)

OPTION - II Max. Marks: 15

Write a program in C to call a function which returns the

Explain the data types used in MS-Access.

- SECTION "A" MULTIPLE CHOICE QUESTIONS Choose the correct answer for each from the given options: The collection of related files is called:
- function structure procedure array Option buttons are also called: (iii) Radio buttons Selected buttons abels Push buttons

In MS-Access, a calculation expression is built in:

Join • Expression builder • Relation • Union

The collection of homogeneous data items is kept in:

Record • Field • Database • ADO

- This method is used to hide the form: (V) Hide.hide • Form.hide • Hide.form • Formname.hide The method used to remove items for the list box is (vi)called:
- Display Clear Delete items Remove items (vii) When the variable scope is limited to a procedure, it is called:
- Global variable Local variable • Public variable In VB, 'Form' is saved with this extension: (viii) .frm • .vbf • .vbp • .doc (ix)This is used to create a calculated field in a query:

a formula • a filter • a condition • an expression

In MS-Access, this object creates views, alters and

analyzes the data in different ways: Form • Query • Report • Macro This data type can accommodate all types of data: (xi)

Object • Date • Variant • Fixed length string

In VB, an integer data type can accommodate number

form: 3.4e⁻³⁸ to 3.4e³⁸ 0 to 65535 -128 to 127 -32,768 to + 32,767 • This control accepts textual information from the user: (xiii)

Label • Text box • Caption • Combo box

(xiv) This type of variable is used in all procedures:

- Private Public Confidential Relational (xv) Default property of first form is: Form1 • Form Formo Any COMPUTER SCIENCE2015
- OPTION II Time: 2 Hours 40 Minutes Marks: 60 (PROGRAMMING USING VISUAL BASIC)
- SECTION B (SHORT-ANSWER QUESTIONS)(36) **NOTE:** Answer 6 question from this section. Define any two of the following: 2.(i)
- **Event Driven Programming** (b) Key Board Events (c) VB Projects Explain Active X controls. (ii)
- Differentiate between Procedure and Function. (ii) Write a program that generates a multiplication table of (iv) an inputted number.
- What are main objects of MS-Access? (v) What is an Array? Explain with an example. (vi)
- Create a single form to add to numbers using text boxes (vii) and buttons.
- What is data dictionary? What does it provide in DBMS? (viii) Write the full form of the following acronyms: (ix)
- DML, DDL, SQL, IDE, RDBMS, DBA SECTION C (DETAILED- ANSWER QUESTIONS)(24)
- NOTE: Answer 2 questions from this section. Define various types of database models. 3.(a) Why is a primary key necessary in a database program? (b)
- State all the loop control structure supported by visual 4.(a) basic and compare them by their syntax and an example.
- Discuss various data types used in MS-Access. (b) Why is a database management system important to any 5.(a)

What characteristics should a good DBMS exhibit?

organization?

(b)