COMPUTER SCIENCE 2014 Max. Marks: 15 Time: 20 Minutes OPTION - I (PROGRAMMING USING 'C')

SECTION "A" (MULTIPLE CHOICE QUESTIONS) Choose the correct answer for each from the given options:

This format specifier is used for 'float' data: (i) ♦ %f ♦ %X ♦ %d ♦ %c The range of integer value is:

(ii) → -32768 to +32767 → -30676 to +30678 → -34877 to +34878 → -36677 to +36678 This loop uses post testing:

(iii) for () * while () * do-while () * none of these Every C program must have this function: (iv) ♦ recursive ♦ input/output ♦ main

Library routine are attached to object program through: ♦ compiler ♦ linker ♦ assembler ♦ interpreter Saving the function's definition under '.h' extension

creates: ♦ link file ♦ object file ♦ source file ♦ header file

(V)

Unconditional looping is implemented through:

♦ while ♦ do-while ♦ none of these ♦ for

(vi)

(vii) (viii) DML queries are also called: ♦ sub queries ♦ joins ♦ action queries ♦ unions

If a = -15, the statement a + = 5 yields: (ix)

in %5d, 5 is: (X)

♦ integer
♦ hex value ♦ field's width specifier ◆ none of these

'One-to-many' refers to: (xi)

♦ Cardinality ♦ Constraint ♦ Join

(xii) This is an arithmetic operator:

(xiii) The data type OLE is used for: ♦ numeric data
♦ Text

♦ &
♦ &
♦ &
♦ &
♦
=

♦ Object linking & Embedding ◆ none of these (xiv) This is a postfix increment operator: ♦ ++a
♦ a+
♦ a++
♦ +a (xv) The extension of a 'C' program is: ♦ .cpp ♦ .tc ♦ .cp ♦ .cc

COMPUTER SCIENCE2014 Time: 2 Hours 40 Minutes Marks: 60 (PROGRAMMING USING 'C')

SECTION B (SHORT-ANSWER QUESTIONS)(36)

NOTE: Answer 6 questions from this section.

Q.2(i) What is the basic structure of a 'C' program?

(ii) List all iterative control structures in C, explain any one of them with syntax. (iii) Write a program in C that swaps two numbers. What is a user defined function? Write its syntax. (iv)

Write a function that returns the cube of any inputted (V)number.

Define format specifiers in C-Language. (vi) Convert the following mathematical expression into C-(vii) Language statement using library functions. (i) $z = \left[\frac{x^2 + y^2}{x(p-q)}\right] \left[\frac{q+y}{e^2 + n^2}\right]$ (ii) $x = \frac{-b + \sqrt{b^2 - 4ac}}{2a}$

(iii) $N = a^3 + 3a^2b + 3ab^2 + b^3$ Write a program in C-language that prints the following:

22

333

4444

55555

Time: 20 Minutes

(i)

(ii)

(iv)

(viii)

(ix)

(X)

the given options:

The Data about Data is:

IDE stands for:

used in MS-Access.

Q.3(a) Write a program that uses switch statement. Explain function prototype with an example. Q.4(a) Explain all types of operators used in C. Explain the data types used in C-Language with (b) examples. How much space is reserved for each data type in memory? Q.5(a) Write the advantages of Database.

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OPTION - II

(PROGRAMMING USING VISUAL BASIC)

SECTION "A" MULTIPLE CHOICE QUESTIONS

Choose the correct answer for each from

Max. Marks: 15

♦ Views

Explain the objects used in MS-Access.

SECTION'C' (DETAILED- ANSWER QUESTIONS)

NOTE: Answer 2 question from this section.(24

What is relationship? State the kinds of relationships

♦ Integral Development Environment none of these (iii) OLE stands for: Object Linking and Enhancing

♦ Integrated Development Environment

Integrated Design Environment

Object Linking and Embedding

♦ Object Listing and Embedding

Object Listing and Enhancing

♦ end program ◆ none of these

♦ Constraints
♦ Cardinality

Attribute of an Entity is mapped as:

SQL stand for:

conditional loop

SQL view in Access is used for:

(xv) Constraints are dropped through:

♦ DML

♦ Form designing
♦ Query designing

♦ Post-test loop

♦ Labels

any one of them.

(V)

DDL

The collection of homogeneous data item is kept in: (v) ♦ Function
 ♦ Procedures
 ♦ Structure
 ♦ Array Multiple input choices are displayed through: (vi) ♦ Function ♦ Windows ♦ List box ♦ Labels The reserve word 'END SUB' is used to: (vii) ♦ start function
♦ end procedure

♦ simple query language ♦ structured query language

One-to-one, One-to-many and Many-to-many are called:

♦ String

unconditional loop

none of these

♦ none of these

+ DQL

+DCL

Key

♦ system query language
♦ none of these

♦ Label → Texbox → Caption → Canvas

This control accepts textual information from the user:

♦ field ♦ record ♦ tuple ♦ none of these (xi)Bound field is bound to have as associated: ♦ File ♦ Record ♦ Record set ♦ data (xii) ADO is a gateway to: ♦ Server ♦ OS ♦ database ♦ none of these (xiii) WHILE WEND is alan:

COMPUTER SCIENCE2014 Time: 2 Hours 40 Minutes OPTION - II Marks: 60 (PROGRAMMING USING VISUAL BASIC) SECTION B (SHORT-ANSWER QUESTIONS)(36)

NOTE: Answer 6 question from this section.

Q.2(i) List all Control Structures used in VB. Write syntax of

Write code to invoke a sub-form the current active form (ii) over click operation on a command button. Give two text boxes and a command button labeled as (iii) "Copy". Write the code text2 item into text1 item under click on "Copy" button. Differentiate between Primary Key and Foreign Key. (iv)

Write a program in Visual Basic to display the following (vi) BENEFIT SEPTEMBER OF SEPTEMBER SEPTE or the late of Jack Glass brook white ever or

Write sub routines for a simple calculator over a form.

Define the following: (vii) (a) Text Box (b) List Box (c) Combo Box (d) Form Explain event drive programming. (viii) Write a program using for loop to print odd number from (ix)

1 to 50. SECTION C (DETAILED- ANSWER QUESTIONS)(24) NOTE: Answer 2 questions from this section. Q.3(a) Explain Selection Control Structures used in VB. Explain joins and sub queries in DBMS.

Q.4(a) Explain functions or subroutines with examples. (b) Explain database Constraints. Q.5(a) Explain the different data types used in VB. Write a program which takes three integers and prints (b) the largest value among them.