# COMPUTER SCIENCE 2016 Max. Marks: 15

Time: 20 Minutes (PROGRAMMING USING 'C') OPTION - I

## SECTION "A" (MULTIPLE CHOICE QUESTIONS) 1. given options:

Choose the correct answer for each from the

- Names given to variable, constants and functions are (i) called:
- \* loops \* structures header files \* indentifiers For () loop is used when we need to perform: (ii) Selection logic Sequential logic Parallel logic Iteration logic
- This is a statement terminator in C.: (iii)
- This type of error is detected by the compiler: (iv) Logical Syntax Absolute Run time
- A pictorial/ graphical representation of program logic is (v)
- known as: \* Procedure \* Source code \* Algorithm Flowchart

- A program, written in high level language, is known as: (vi)
- Source code \* Object code \* Uni code \* Executable code
- Format specifiers must start with:
- (vii) % This is a relational expression: (viii)
- x = y; x + y; x == y; The gets () statement is used to input:
- Integer data Single character data
- String data Float data
- (ix) To print the values of %If a and b given below, the (x)

- double b=2.532:
- following print()statement will be used: float a=3.14;
- printf ("%f%lf",a,b); printf("%Lf%f",a,b); printf (" f%Lf",a,b); printf ("%Lf%Lf"|,a,b); The columns in a Microsoft Access Table are called: (xi)
- Records **Fields** Entities Rows (xii) A foreign key: has nothing to do with the primary key has different values than the primary key

is found in tables that do not have a primary key

is related to the primary key of a different table

A function which invokes itself is called:

Recursive function

Library function

(xv)

2.(i)

(viii)

(ix)

4.(a)

(b)

5.(a)

(b)

1.

(iii)

(vi)

(vii)

(xii)

(xiii)

(xiv)

2.(i)

(ii)

(vi)

5.(a)

(b)

Access:

Memo

used in C-program.

Explain the objects of MS Access.

database management system (RDMBS)?

C-language.

given options:

DBMS stands for:

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number.

The various components in MS Access are called: (xiii) **Properties Entities Objects** Tools A field in DBMS is sometimes called a/an: (xiv) File Record Attribute Database

System function ·

Iteration function

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SECTION B (SHORT-ANSWER QUESTIONS)(36)

#### %d %c (b) %f (c) (d) (a) %If (f) (e) %ld Determine any six valid or invalid indentifiers, in case of (ii) invalid, given reason.

NOTE: Answer 6 questions from this section.

Define each format specifier with an example.

- (a) Include (b) Stwenty (c) 5-numbers (d) y/s (e) integer (f) f\_name (g) Getch (h) smallest (iii) Draw a flowchart that prints the table of any inputted
- What is meant by case-sensitive language? Write the (iv) structure of "C" program. Write a program in C language to print the number from (v) 4 to 9 and their squares.(using do while loop)
- Convert the following mathematical expressions into (vi) "C" equivalent statements. (a)  $A = \pi r^2$  (b)  $x = 3ab^3 + 3a^2b$  (c)  $d = |b^2 - 4ac|$ (d)  $y = a^2 + b^3 + c^4$  (e)  $X = (a^2 + b^3)^n$  (f) J = 1/2 pb
- (vii) Write the output of the following statement of Cprogram. for (int i = 2; i < 10; i + +)
- printf("%d",i); if(i%2 == 0)continue; printf("\n");

SECTION'C' (DETAILED- ANSWER QUESTIONS)

NOTE: Answer 2 question from this section.(24

Define data files. Describe any two types of data files

Define operators. Explain different types of operators in

What is database? What are the advantages of relational

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(PROGRAMMING USING VISUAL BASIC)

SECTION "A" MULTIPLE CHOICE QUESTIONS

Choose the correct answer for each from the

OPTION - II

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What is algorithm? Define different Algorithm Notations:

What is loop? Explain nested for loop with an example. 3.(a) What is preprocessor directive? Explain any two (b) preprocessor directives in C with examples.

What are the responsibilities of DBA?

The cancel button property belongs to this object: (i) \* Textbox Label Form Button When a condition in "If..... Then statement" tests true: (ii) the next Else statement is activated the next If statement is activated

the next Then statement is activated

the End If statement is activated

Data Base Management System

De Base Management System

De Bug Management System

Dot Base Management System

is: \* -1 \* 0

be selected at the same time is:

The scope of a variable refers to:

array number 7 refers to:

## This selection process is an example of multiple (iv) branches from a single expression: If....Then \* Select Case \* Do....Loop \* For....Next In the for.....Next statement the default value for the step (v)

The number of Radio Buttons in a Group Box that can

1

3

- the length of the variable \* the name of the variable the accessibility of the variable the data type of the variable In the statement, Dim Days (7) as String, this part of the (viii)
- Array name \* Datatype \* Lowerbound \* Upperbound A foreign key: (ix) has nothing to do with the primary key has different values than the primary key
- The columns in a Microsoft Access table are called: (x) Fields \* Entities Records Rows A label is used to: (xi) Enter text \* Display text \* Edit text \* Selection option

Procedure \* Module \* Function \* Routine

This data type is used to store long text entries in MS

\* Text \* Number \* OLE object

A sub program which returns a value is called:

This control display text the user can edit:

is found in tables that do not have a primary key

is related to the primary key of a different table

Check box \* List box \* Label Text box The project file of visual basic has one of the following (xv)extension: \* .frm .ocx .vbp COMPUTER SCIENCE2016

### 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.

What is Combo box? List its properties. (iii) List some file controls. (iv) (v) Write a program in VB to generate the factorial of an inputted number.

Describe any four features of Visual Basic.

Define array with syntax and example.

What is Select Case? Write its syntax.

the

management system (RDBMS).

are

- Define Form and state its tools used in VB. (vii) (viii) What are the characteristics of a primary key? Write a program that reads any character from keyboard (ix) and determine whether the entered value is numerical or
- alphabet. SECTION C (DETAILED- ANSWER QUESTIONS)(24)
- NOTE: Answer 2 questions from this section. What is operator? Explain all operators in VB. 3.(a) Explain all data types used in VB.
- (b) 4.(a) What is common dialog control? Explain all methods and properties with exxamples. Explain all the objects of MS Access. (b)

Define Loop. How many types of loops are used in VB?

advantages of Relational dabatase