1603E1827   Candidate's Seat No :_____

B.C.A. (Sem.-1) Examination
CC 102
Programming in C. Language

Time : 2-30 Hours]   March 2019   [Max. Marks : 70

Instructions : (1) All question are Compulsory.
  . (2) Stert each question from a new page.
  (3) Figures to the right indicate Full Marks.

Question:1
  [A] Explain the Structure of C-Program.   [07]
  [B] Explain Machine language, Assembly language and High-level language in details   [07]
    OR
  [A] What is an algorithm? Write an algorithm to check given number is Prime or not.
  [B] What is Flowchart? Draw a flow chart for the problem finding greatest number from given 3 numbers

  [C] Fill in the blanks: (Any Four)   [04]
    1. In flowchart _____ symbol is used for connectors.
    2. In variable of type int, _____ maximum number can be stored.
    3. Size of long int variable is _____.
    4. _____ operator is known as a conditional operator.
    5. >= is a type of _____ operators.
    6. _____ operator is used to find remainder.

Question: 2
  [A] Draw and explain the flow diagram of If ... else if .... Else statement.   [07]
  [B] Draw and explain the flow diagram of nested if conditions.   [07]
    OR
  [A] Explain switch ... case statement with an example.
  [B] Show the use of 'break' and 'continue' keyword with an example of each.

  [C] Fill in the blanks: (Any Four)   [04]
    1. If(x=5) statement is always _____.
    2. In if ... else statement, system will execute _____ part if the condition is FALSE.
    3. _____ conditional statement is used only to test equality.
    4. In C-language _____ statement is considered as unconditional jump.
    5. If no case is matched with switch expression then _____ case will be executed by the system.
    6. Each case statement in switch () is separated by _____.

Question: 3
  [A] Draw and explain the structure of while loop with an example.   [07]
  [B] What is loop? List and explain the loop statements available in the C-language.   [07]
    OR
  [A] Write the syntax of do .... While loop? How it defers from while loop? Give an example of do ... while loop.
  [B] What is nested loop? Give an example of it.

  [C] State the following statements are TRUE or FALSE (Any THREE):   [03]
    1. Loop inside a loop is called infinite loop.
    2. In a for loop initialization statement and conditional statements are separated by semi-colon (;).
    3. While loop cannot be nested.
    4. Do...while loop is exit control loop.
    5. Keyword 'terminate' is used to terminate premature loop.

Question: 4
  [A] What is Array? How can we declare and initialize data members of an array?   [07]
  [B] What is string? How can we store string in the C-Program?   [07]
    OR
  [A] What is UDFs? List and explain different categories of it.
  [B] Explain basic structure of User Defined Function.

P. T. O.

[C] Answer the following MCQs (Any Three):   [03]
   [1] Which function name form the give below is invalid?
        [A] abc   [C] int
        [B] abc_123   [D] _hello
   [2] Which function is used to compare two strings?
        [A] strcmp ()   [C] cmpstr ()
        [B] strlen ()   [D] compare ()
   [3] For function strlen (), which header file should be included?
        [A] math.h   [C] conio.h
        [B] stdio.h   [D] None of the above
   [4] Base address of the array is _____.
        [A] Index of the first element   [C] Name of the array
        [B] Index of the last element   [D] Address of the last element
   [5] Default return type of the function is _____.
        [A] void   [C] char
        [B] float   [D] int