| **BIEE-031**

DIPLOMA IN ELECTRICAL ENGINEERING (DELVI)/ADVANCED LEVEL CERTIFICATE IN ELECTRICAL ENGINEERING (ACELVI)

Term-End Examination

December, 2013

BIEE-031 : C - PROGRAMMING

Time : 2 hours   *Maximum Marks : 70*

Note : *Attempt **any five** questions including question no. 1 which is **compulsory.***

1. Choose the correct answer.
    (a) Which of the following is an operating   **2**
        system ?
        (i)   Database   (ii)   UNIX
        (iii) JAVA   (iv)   'C'
    (b) Which of the following is not datatype in   **2**
        'C' ?
        (i)   int   (ii)   float
        (iii) double   (iv)   array
    (c) do-while is a -   **2**
        (i)   entry control loop.
        (ii) statement.
        (iii) exit control loop.
        (iv) None of these.
    (d) Which of the following is an arithmetic   **2**
        operator ?
        (i)   *   (ii)   !
        (iii) | | (iv)   <

(e) Consider if $(x < 5 \,\&\& \, x \,! = 2)$ for which value   2
of x, condition is false :

(i) $x = 0$ (ii) $x = 4$

(iii) $x = 5$ (iv) $x = 1$

(f) Which of the following can uniquely   2
identify a record in database :

(i)   field   (ii)   attribute

(iii)   Primary key   (iv)   None of these

(g) Break statement is used with :   2

(i)   loops.   (ii)   functions.

(iii)   programs.   (iv)   All of these.

2. (a) Explain different types of constants   7
available in 'C'.

(b) Write a program to print all the numbers   7
which are divisible by 7 between 100 and
200.

3. (a) Write the syntax of different output   7
statement/functions in 'C'.

(b) Write a program to print following pattern   7
*

* 1

* 2 2

* 3 3 3

* 4 4 4 4

4. (a) Explain the need of data ordering on a key.   7

(b) Explain the use of information storage and   7
retrieval.

5. (a) How Computer and Programming is useful   7
for analysis of circuits design in Electrical
Engineering ?

   (b) With the help of example, explain the   7
differences between if and go to statements.

6. (a) Write a program using one dimensional   7
array to accept 10 numbers as input from a
user and find the sum of 10 numbers.

   (b) Explain logical operators in 'C'. Give   7
examples for each of them.

7. (a) Write a program to check whether a   7
number entered by a user is prime or not.

   (b) What is the difference between keyword   7
and identifier (variable or function name) ?
Give example.

8. Write short notes on **any four** of the following :
   (a) CAD and CAM   **3.5x4=14**
   (b) Bit wise operators
   (c) For loop
   (d) Data types in 'C'
   (e) Library functions
   (f) Break and continue

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