

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

00771

Term-End Examination

June, 2014

BIEE-031 : C - PROGRAMMING

Time : 2 hours

Maximum Marks : 70

Note : Attempt any five questions. Question no. 1 is compulsory. All questions carry equal marks.

1. Choose the correct answer : $7 \times 2 = 14$
- (a) Which of the following is Invalid variable ?
- (i) sum
 - (ii) total
 - (iii) interest rate
 - (iv) name
- (b) Programming language 'C' has been developed at
- (i) Microsoft Corp., USA
 - (ii) AT & T Bell Labs, USA
 - (iii) Borland International, USA
 - (iv) IBM, USA

- (c) Which of the following is the correct statement for checking condition in IF statement ?
- (i) if (a = b)
 - (ii) if (a == b)
 - (iii) if (a, b)
 - (iv) if (a b)
- (d) How many elements will be there in A[10][5][2] ?
- (i) 100
 - (ii) 50
 - (iii) 20
 - (iv) None of the above
- (e) An array element need not occupy contiguous memory location. (True/False)
- (f) Each group of Binary format represents one character. (True/False)
- (g) A switch expression can be of any type. (True/False)
2. (a) What is meant by Basic data types ? Explain in brief. 7
- (b) Compare the following : $3\frac{1}{2} + 3\frac{1}{2} = 7$
- (i) do while and while loop.
 - (ii) break and continue statement.

3. (a) Write a program to print all the ASCII values and their equivalent characters using while loop. The ASCII value varies from 0 to 255. 7
- (b) Write a program to print the following : 7
- ```

1
2 2
3 3 3
4 4 4 4
5 5 5 5 5

```
4. (a) Write a menu driven program which has following options :  $3+3+2=8$
- (i) Factorial of a Number
- (ii) Odd or Even Number
- (iii) exit
- Make use of switch statement.
- (b) Write a program in 'C' to find sum of first N numbers. 6
5. (a) Write a program in 'C' to read and display the transpose of  $M \times N$  matrix. 7
- (b) What is primary key in database ? Why is it required ? 7
6. (a) Define data processing. Explain commercial and business data processing application. 7
- (b) Write a program using conditional operators to determine whether a year entered through the keyboard is a leap year or not. 7

7. (a) Write a program in 'C' to reverse a five digit number which is input through the keyboard. 7
- (b) Write a 'C' program to find out the sum of two matrices. 7
8. Write short notes on any *four* :  $4 \times 3 \frac{1}{2} = 14$
- (a) Database Management System
  - (b) CAE
  - (c) CAM
  - (d) Importance of 'C' in Electrical Engineering
  - (e) Array
  - (f) Ternary operator
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