

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

00836

Term-End Examination

June, 2015

BIEE-031 : 'C' - PROGRAMMING

Time : 2 hours

Maximum Marks : 70

Note : *Out of seven questions five questions are to be answered. Question no. 1 is compulsory.*

1. Choose the correct answer.

7×2=14

(a) How much memory space is taken by a float variable ?

(i) 2 Bytes

(ii) 4 Bytes

(iii) 6 Bytes

(iv) 8 Bytes

(b) An array A[5] [10] will have

(i) 50 elements

(ii) 15 elements

(iii) 25 elements

(iv) 55 elements

- (c) Which of the following is a valid variable ?
- (i) int
 - (ii) float
 - (iii) for
 - (iv) average
- (d) How many times is a do-while loop guaranteed to execute ?
- (i) One
 - (ii) Zero
 - (iii) Two
 - (iv) None of the above
- (e) %d is used for
- (i) int
 - (ii) double
 - (iii) char
 - (iv) float
- (f) Which one is ternary operator ?
- (i) Assignment
 - (ii) Relational
 - (iii) Conditional
 - (iv) Bit-wise
- (g) If $a = 7$, $b = -2$, $a \% b$ will be
- (i) 0
 - (ii) 1
 - (iii) -1
 - (iv) None of the above

2. (a) What are the various operators available in C language ? 7
- (b) Write a program to calculate the factorial of any number by using recursion. 7
3. (a) What is primary key in database ? Why is it required ? 7
- (b) What is a switch statement ? Give its syntax with a suitable example. 7
4. (a) Write a C program to generate the Fibonacci series. 7
- (b) What is the role of C programming in Electrical Engineering ? 7
5. (a) Write a program for addition of two matrices. 7
- (b) Differentiate between break and continue statements with suitable examples. 7
6. (a) Why is the use of 'goto' considered as a bad programming practice ? 7
- (b) What do you mean by CAD ? How is CAD different from CAM ? 7
7. Write short notes on any *four* of the following : $4 \times 3 \frac{1}{2} = 14$
- (a) Data types in C
- (b) CAI
- (c) User-defined data types
- (d) Operator in C Language
- (e) CAM
- (f) CAE
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