

01032

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

**Term-End Examination**

**December, 2011**

**BIEE-031 : C - PROGRAMMING**

*Time : 2 hours*

*Maximum Marks : 70*

*Note : Out of eight Questions, five questions are to be answered.  
Question No. 1 is compulsory.*

**Attempt the following objective type questions :**

1. (a) Which of the following is not an operating system ? 2
- (i) DOS
  - (ii) LINUX
  - (iii) UNIX
  - (iv) JAVA
- (b) Which of the following is not a keyword in 'C' ? 2
- (i) if
  - (ii) else
  - (iii) array
  - (iv) void

(c) The statement for (  $i = 0; i \leq 10; i++$ ) will iterate the loop - 2

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|---------------|--------------------|
| (i) 10 times  | (ii) 11 times      |
| (iii) 9 times | (iv) none of these |

(d) An array A[5] [10] will have : 2

- |                   |                  |
|-------------------|------------------|
| (i) 50 elements   | (ii) 15 elements |
| (iii) 25 elements | (iv) 55 elements |

(e) Which of the following is a Bitwise operator ? 2

- |            |           |
|------------|-----------|
| (i) $\&\&$ | (ii) $  $ |
| (iii) $<<$ | (iv) $!$  |

(f) If  $x = 16$  then  $x << 3$  will be : 2

- |           |         |
|-----------|---------|
| (i) 32    | (ii) 64 |
| (iii) 128 | (iv) 19 |

(g) Select the odd man out - 2

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|-------------|-------------|
| (i) long    | (ii) double |
| (iii) float | (iv) array  |

2. (a) Write a program to check whether a number is positive or negative ? 6
- (b) Why use of 'goto' is considered as a bad programming practice ? 8
3. (a) Write a program to compute area of a triangle. Base and height must be entered by the user. 7
- (b) Write a program to print following pattern. 7
- ```

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

```
4. (a) What is primary key ? Explain the role of primary key in database. 7
- (b) Explain the need for information storage and retrieval. 7
5. (a) What are the various operators available in C language ? 7
- (b) Write a program that takes ten integers from a keyboard and then find their average. 7

6. (a) Write a program to find the transpose of a matrix of order  $3 \times 3$ . 7  
(b) What is a switch statement? Give its syntax with suitable example. 7
7. (a) Differentiate between break and continue statement with suitable example. 7  
(b) Illustrate the role of C-Language from an electrical engineer's point of view. 7
8. Write short notes on *any four* : 3.5x4=14  
(a) Data types in 'C'  
(b) Conditional operators.  
(c) CAE  
(d) CAM  
(e) CAD  
(f) CAI
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