

**DIPLOMA IN ELECTRICAL ENGINEERING  
(DELVI)**

**Term-End Examination**

**June, 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 a loop ? 2
- (i) do - while
  - (ii) goto
  - (iii) for
  - (iv) while
- (b) Which one is ternary operator ? 2
- (i) Assignment
  - (ii) Relational
  - (iii) Conditional
  - (iv) Bit - wise

- (c) If  $a=7$   $b=-2$ ,  $a\%b$  will be : 2
- (i) 0                      (ii) 1  
(iii) -1                    (iv) none of these
- (d) How much memory space is taken by a float variable ? 2
- (i) 2 Byte                (ii) 4 Byte  
(iii) 6 Byte              (iv) 8 Byte
- (e) CAM stands for : 2
- (i) Computer Aided Manufacturing  
(ii) Computer Aided Machines  
(iii) Computer Application Machines  
(iv) Computer Aided Maintenance
- (f) %d is used for : 2
- (i) int                      (ii) double  
(iii) char                  (iv) float
- (g) Which of the following cannot be a valid identifier ? 2
- (i) sum                      (ii) -sum  
(iii) 7sum                  (iv) sum-7

2. (a) Write a program to check whether a number is even or odd. 6
- (b) use goto statements to print numbers from 1 to 10. 8
3. (a) What is the need for information storage and retrieval ? 7
- (b) Explain the process of creating a database file and inserting record into it. 7
4. (a) Write a program to print following pattern 7
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*  *
*  *  *
*  *  *  *
*  *  *  *  *

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- (b) Write a program to find sum of digits in a given number. 7
5. (a) What are the various data types available in C language ? 6
- (b) Write a program to insert element in a one-dimensional array and display its content. 8
6. (a) What is the role of primary key in the database ? 7
- (b) What is the rôle of C- programming in Electrical Engineering ? 7

7. (a) Write a program for addition of two matrices. 8  
(b) Differentiate between while and do - while loop. 6
8. Write short notes on *any four* : 3.5x4  
(a) Operators in C Language  
(b) CAD  
(c) CAM  
(d) CAE  
(e) CAI  
(f) user - defined data types.
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