

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

Term-End Examination

December, 2012

BIEE-031 : C - PROGRAMMING

Time : 2 hours

Maximum Marks : 70

*Note : This question paper consist of **eight** questions, **five** questions to be answered. Question No 1 is compulsory.*

Choose the correct answer from the given four alternative.

1. (a) Which one is a conditional operator? 2
(i) = (ii) = =
(iii) ? (iv) >>
- (b) How many space is needed to store a int 2
type variable ?
(i) 2 Byte (ii) 4 Byte
(iii) 0 Byte (iv) None of Above
- (c) How much space is needed to store A [10] 2
array of integer ?
(i) 10 Bytes (ii) 20 Bytes
(iii) 30 Bytes (iv) Depend on compiler

- (d) Which one is not a loop structure ? 2
- (i) do while (ii) while
(iii) for (iv) if

NOTE :- State with reason whether the following is **TRUE OR FALSE**.

- (e) RAM stands for Random Access Memory 2
- (f) DBMS stands for Duplicate Management system. 2
- (g) Void is not a data type. 2
2. (a) Write a C program to find the sum of N natural numbers. 7
- (b) Write a 'C' program check whether the number is armstrong or Not. 7
3. (a) Write a 'C' program to generate the following with the use of loop. 7
- 1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
- (b) Write a C program to check whether the number is prime or not. 7

4. (a) Write a C program to insert a record in a file. 7
- (b) What are the file opening modes in 'C' ? List all the modes by giving a suitable example. 7
5. (a) Differentiate the primary and secondary keys in database by giving a example. 7
- (b) List some basic software available in the field of electrical engineering. Give brief introduction of atleast one. 7
6. (a) What do you mean by CAD ? How CAD is differ from CAM ? 7
- (b) Write a 'C' program to find out the transpose of a Matrix. 7
7. (a) Write a 'C' program to create a one dimensional array, and copy all the elements of this array to another one dimensional array. 7
- (b) What is the difference between switch and nested if-else statements? Which one is best and why ? 7

8. Write short notes on **(any four)** of the following

3.5x4=14

- (a) DBMS
 - (b) Applications of C in Electrical engineering.
 - (c) User defined data types.
 - (d) CAE
 - (e) Operators in 'C' language.
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