

**DIPLOMA IN COMPUTER SCIENCE AND
TECHNOLOGY (DCSVI)/ADVANCED LEVEL
CERTIFICATE COURSE IN CSE (ACCSVI)**

Term-End Examination

December, 2012

BICS-030 : 'C' PROGRAMMING

Time : 2 hours

Maximum Marks : 70

Note : Attempt any five questions in all. Question No.1 is compulsory. All questions are to be answered in English only.

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1. Choose the correct option : 2
- (a) Statements in C ends with : 2
- (i) : (ii) ()
(iii) ; (iv) ,
- (b) Float data type will take _____ to 2
store a variable.
- (i) 4 Bytes
(ii) 2 Bytes
(iii) 1 Byte
(iv) Depends on compiler.
- (c) Array is a collection of : 2
- (i) Different data types
(ii) Similar data types
(iii) Both
(iv) None

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- (d) If $a = 10$, $b = 3$, then $a \% b$ will be : 2
 (i) 0 (ii) 1
 (iii) 2 (iv) None.
- (e) Data is a : 2
 (i) raw fact (ii) figures
 (iii) Both (iv) None.
- (f) int is a : 2
 (i) keyword (ii) identifier
 (iii) operator (iv) None.
- (g) A file is a collection of : 2
 (i) data (ii) identifier
 (iii) related records (iv) None.
2. (a) Write a C program to print the following - 7
 *
 * *
 * * *
 * * * *
- (b) Write a C program to find out the largest 7
 number among three numbers.
3. (a) Write a C program to identify whether the 7
 entered number is prime or not.
- (b) The temperature of a city is given in $^{\circ}\text{C}$. 7
 Write a C program to convert it into $^{\circ}\text{F}$.

4. (a) What is database Management System ? 8
Explain the various advantages database management system over file system.
- (b) What is information ? What is the need of information storage and retrieval? Explain with suitable example 6
5. (a) What is primary key ? How it differ from candidate key ? Explain by giving a suitable example. 7
- (b) Write a C program to simulate the basic operations of a calculator, using switch case. 7
6. (a) Write a program to find the multiplication of two matrix. 8
- (b) What is data types? Explain each data types with example. 6
7. (a) What is the importance of C in the core engineering ? Explain. 6
- (b) Write a C program to count number of lines in a file. 8
8. Write short notes (**Any four**) : 3.5x4=14
- (a) Switch
- (b) if - else
- (c) Break and Continue.
- (d) CAD
- (e) CAM.
- (f) RAM and ROM.
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