

**DIPLOMA – VIEP – COMPUTER SCIENCE AND  
ENGINEERING (DCSVI)/ADVANCED LEVEL  
CERTIFICATE COURSE IN COMPUTER  
SCIENCE AND ENGINEERING (ACCSVI)**

**Term-End Examination**

**June, 2015**

00744

**BICS-030 : 'C' PROGRAMMING**

*Time : 2 hours*

*Maximum Marks : 70*

---

**Note :** Attempt any **five** questions. Question no. 1 is **compulsory**. All questions carry equal marks.

---

---

1. Choose the correct answer of the following :  $7 \times 2 = 14$

(a) Which kind of language is the programming language ?

(i) Machine

(ii) Procedural

(iii) Assembly

(iv) Object-oriented

(b) Integer division results in

(i) Truncation

(ii) Rounding

(iii) Overflow

(iv) None of these

(c) What is the value of x ?

```
int x = 2 * 3 + 4 * 5;
```

(i) 22

(ii) 26

(iii) 70

(iv) 50

(d) Which of the following is the correct statement for checking condition in if statement ?

(i) if (a = b)

(ii) if (a, b)

(iii) if (a == b)

(iv) if (ab)

(e) The modulus operator % can be used only with integer. (True/False).

(f) The expression ! (x <= y) is same as the expression (x > y). (True/False)

(g) A switch statement can be of any type. (True/False)

2. (a) What do you mean by database ? Explain the three schema architecture of DBMS. 7

(b) Differentiate between data and information. Explain by giving suitable examples. 7

3. (a) Differentiate between the following : 8
- (i) Identifier and Keyword
  - (ii) Constant and Variable
  - (iii) Printf ( ) and Scanf ( )
  - (iv) '\n' and '\t'
- (b) What is meant by basic data types ?  
Explain in brief. 6
4. (a) Write a program in 'C' that will obtain the length and width of a rectangle from the user and compute its area and perimeter. 7
- (b) Write a program in 'C' to check whether a given character from the keyboard is a digit, an alphabet or other character. 7
5. (a) Compare the following :  $2 \times 3 \frac{1}{2} = 7$
- (i) do ... while and while loop
  - (ii) break and continue
- (b) Write a program to generate the following series : 7
- 1
- 1 2
- 1 2 3
- 1 2 3 4
- 1 2 3 4 5

6. (a) What is an array ? How are individual array elements identified ? Define 1-D and 2-D with examples.  $2+2+3=7$
- (b) Write a program in 'C' to read and display the transpose of M×N matrix. 7
7. (a) What is a file ? Write a 'C' program to create a file and display its contents. 7
- (b) Write a program to find the factorial value of any number entered through the keyboard. 7
8. Write short notes on any *four* of the following :  $4 \times 3 \frac{1}{2} = 14$
- (a) Importance of 'C' in Electrical Engineering
- (b) Ternary Operator
- (c) CAD
- (d) CAM
- (e) RDBMS
- (f) Switch( ) Statement
-