



M 7742

Reg. No. :

Name :

I Semester B.C.A. Degree (CCSS – Supple./Improv.) Examination, November 2014
(2013 and Earlier Admn.)

CORE COURSE

1B01 BCA : Programming in C

Time : 3 Hours

Max.Weightage : 21

Instructions : Section A – Answer **all** questions Weightage for a **bunch** of **four** questions is **one**.

Section B – Answer **any five** Weightage **1** each.

Section C – Answer **any five** Weightage **2** each.

Section D – Answer **any one** Weightage **4**.

SECTION – A

Answer **all** questions. Weightage for a **bunch** of **four** questions is **1**.

1. The _____ operator can not be used with real operands.
2. C programs are converted into machine language with the help of _____
3. A single character input from the keyboard can be obtained by using the function
 - a) print ()
 - b) getchar ()
 - c) scanf ()
 - d) putchar ()
4. In scanf () function, _____ contains certain required formatting information.
5. By default, a function return _____ value.
6. The printf may be replaced by _____ function for printing strings.
7. While incrementing a pointer, its value gets increased by the length of the data type to which it points. This length is called _____
8. Preprocessor directives are used for
 - a) Macro expansion
 - b) File inclusion
 - c) Conditional compilation
 - d) All of these

(2×1=2)

P.T.O.



SECTION – B

Answer **any 5** questions. Weightage **1 each**.

9. Define algorithm.
10. What is an unsigned integer variable ?
11. What will be the value of n when the following segment is executed

```
int n = 10, m = 20 ;
n = (m < n) ? m + n : m - n ;
```

 Explain.
12. What is a multidimensional array ?
13. How is a pointer initialized ?
14. List various storage classes in C.
15. What is dynamic memory allocation ?
16. Explain the use of return statement. (5×1=5)

SECTION – C

Answer **any 5** questions. Weightage **2 each**.

17. Explain various escape sequence characters in C.
18. Give syntax of nested if ... else statement with an example.
19. Explain the syntax and use of do – while statement.
20. What is a function ? State any three advantages of function.
21. Distinguish between malloc () and calloc () functions.
22. What are the similarities and differences between structure and union ?
23. Distinguish between the following functions
 - a) getc and getchar
 - b) printf and fprintf
24. Explain command line argument with example. (5×2=10)

SECTION – D

Answer **any one** question. Weightage is **4** :

25. Write a program to multiply two matrices using functions. (1×4=4)
26. Briefly explain data files in C.