



K 15U 0563

Reg. No. :

Name :

I Semester B.C.A. Degree (CCSS – Reg./Supple./Improv.)

Examination, November 2015

Core Course

1B01 BCA : PROGRAMMING IN C

(2014 Admn. Onwards)

Time : 3 Hours

Max. Marks : 40

SECTION – A

Answer all questions.

1. During modulo division the sign of the result is always the sign of _____

2. How many times the program will print

“Hello world”

```
#include<stdio.h>
```

```
int main()
```

```
{
```

```
printf(“Hello world”);
```

```
main();
```

```
return 0;
```

```
}
```

3. int a = 10, b ;

```
b = a ++ + ++ a ;
```

```
printf(“%d, %d, %d, %d”, b,a++, a, ++a);
```

what will be the output when the above code is executed ?

a) 12, 10, 11, 13

b) 22, 10, 11, 13

c) 22, 11, 11, 11

d) 22, 13, 13, 13

4. Which of the following is not a character constant ?

a) '\60'

b) '\x24'

c) 'sum'

d) 'A'

P.T.O.



5. Elements of the array are accessed by _____
6. The function scanf() returns
 - a) The actual values read for each argument
 - b) 0
 - c) 1
 - d) The number of successful read input values
7. A modulus operator cannot be with a long double (True/False)
8. If the two strings are identical, then strcmp() function returns
 - a) - 1
 - b) 1
 - c) 0
 - d) yes

(8x.5=4 Marks)

SECTION – B

Write short notes on **any seven**.

9. What is the basic structure of C ?
10. What is the general form of conditional operator ? Give an example.
11. Give the syntax of nested if-else statement.
12. What are exit controlled loop ? Give an example.
13. What are recursive functions ? Write a program to find the factorial of a number using recursive function.
14. What are shorthand assignment operators ?
15. In what ways does a switch statement differ from an if statement ?
16. Define Union and structure.
17. How a pointer is initialized ?
18. What is a file ? Which are the basic file operations ?

(7x2=14 Marks)



SECTION – C

Answer **any four** of the following.

19. Write a program to read and write alphabets in reverse case.
20. Draw a flowchart and write a program to find the biggest of three numbers.
21. Explain the difference between call by value and call by reference.
22. What is a pointer ? How it is initialized ?
23. What is command line argument ? Give an example.
24. Distinguish between a) `getc` and `getchar` b) `printf` and `fprintf`

(4×3=12 Marks)

SECTION – D

Write an essay on **any two** of the following.

25. What are storage classes in C ? Explain various storage classes with suitable examples.
26. What are string handling functions ? Explain various string handling functions with suitable examples.
27. Write a C program to print all the factors of a given integer using a function.
28. A) Write a recursive function to generate and print first n Fibonacci numbers.
B) What are pointer expressions ? Write a program using pointers to compute the sum of all elements stored in an array.

(2×5=10 Marks)
