



K17U 2589

Reg. No. :

Name :

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

Examination, November 2017

Core Course

1B01 BCA : PROGRAMMING IN 'C'

(2014 Admn. Onwards)

Time : 3 Hours

Max. Marks : 40

SECTION – A

1. One word answer :

(8×0.5=4)

- The _____ operator returns the number of bytes the operand occupies.
- The statement "printf("%e", a);" is used for printing a variable 'a'. The data type of variable 'a' is _____
- By default _____ is the return type of C function.
- If the two strings are identical, then 'strcmp()' function returns _____
- What will be the output of the following program ?

```
int main (){\nint i=0;\n    for ( ; ;)\nprintf("%d", i);\n    return 0;\n}
```

f) Write **true** or **false** :

In function prototype declaration, specifying variable name is optional.

- In a flow chart _____ is used for showing input and output.
- _____ is a method used for packing data of different types.

SECTION – B

Write short notes on **any seven** of the following questions :

(7×2=14)

- Briefly explain any two file input functions in C.
- What is a command-line argument ?
- List the different data types available in C.

P.T.O.



5. What is meant by operator precedence ?
6. Write a short-note on bitwise operators in C.
7. What is meant by explicit type conversion ?
8. Write a short-note on prefix and postfix decrement operators.
9. Explain 'goto' statement in C.
10. Differentiate between text and binary files.
11. What is the value of 'x' after executing the statement "x*=3+2;" ? Assume, value of 'x' before the execution is 2. Justify your answer.

SECTION – C

Answer **any four** of the following questions :

(4×3=12)

12. Explain the structure of a 'switch' statement.
13. Discuss on any three operators in C which are right-to-left associative.
14. Explain any three formatted outputting options in C for strings.
15. Write a C program using pointers to read in an array of integers and print its elements in reverse order.
16. Write a note on the building primitives of a flow chart.
17. Compare 'strcat' and 'strncat' functions in C with examples.

SECTION – D

Answer **any two** of the following questions :

(2×5=10)

18. What is recursion ? Write a recursive function in C for checking whether a string is palindrome or not.
 19. Explain formatted outputting options in C for floating point numbers.
 20. Compare while and do-while statements with suitable examples.
 21. Write a complete C program for reading student details (name, class and register number) from keyboard and writing it into a file.
-