



Reg. No. :

Name :

II Semester B.Sc. Degree (CCSS – Reg./Supple./Improv.)

Examination, May 2016

CORE COURSE IN COMPUTER SCIENCE

2B02 CSC : Advanced Programming in C

(2014 Adm. Onwards)

Time : 3 Hours

Max. Marks : 40

SECTION – A

1. One word answer :

(8x0.5=4 Marks)

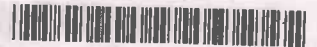
- a) If you don't initialize a static array _____ would be the element set to.
- b) What will be the output of the following code ?

```

void main ()
{
    intj , *ptr;
    ptr = &j;
    *ptr = 35;
    printf("\n%d", j);
}

```

- c) In an array int arr [12] the word arr represents the _____ of the array.
- d) A string is nothing but an array of characters terminated by _____
- e) The structure FILE is defined in the header file _____
- f) The array char name [10] can consist of a maximum of _____ characters.



- g) The variables that are both alive and active throughout the entire program are known as _____
- h) _____ is the name of operator '*'.
Examined
- i) The function _____ takes a file pointer and resets the position to the start of the file.
Examined

SECTION - B

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

(7×2=14 Marks)

2. What is preprocessor ?
3. Difference between function and macro.
4. Distinguish between getc and getche.
5. Define the term pointer.
6. Write a macro to find the cube of a number.
7. Explain the meaning of sizeof operator.
8. What is mean by Nested structures ?
9. Distinguish between getw and putw.
10. Distinguish between malloc and calloc.
11. What are the common uses of rewind and ftell functions ?

SECTION - C

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

(4×3=12 Marks)

12. Write a program that accepts two integer arguments by reference and perform a swap.
13. Explain any two steps that are followed while accessing a file.



14. Write program for adding a string to the end of another string.
15. What is recursion ? Explain its merits and demerits.
16. Write a function to find the factorial of a given number using recursion.
17. Explain the mechanism available in C for reading and writing into files.

SECTION – D

Write an essay on **any two** of the following questions : **(2x5=10 Marks)**

18. Explain briefly the term 'user defined function' and its categories.
 19. Explain string-handling functions in detail.
 20. Write a program to count the number of words and lines in a text file.
 21. Write a program to check whether the given string is palindrome or not using command line argument.
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