



K17U 1026

Reg. No. : .....

Name : .....

**II Semester B.Sc. Degree (C.B.C.S.S. – Reg./Supple./Imp.)**  
**Examination, May 2017**  
**CORE COURSE IN COMPUTER SCIENCE**  
**2B02 CSC : Advanced Programming in 'C'**  
**(2014 Admn. Onwards)**

Time : 3 Hours

Max. Marks : 40

SECTION – A

1. **One word answer :** **(8×0.5=4)**

a) If the two strings are identical, then strcmp() function returns

b) What will be the output of the following code ?

```
void main()
{
    int j = 10, *ptr ;
    ptr = &j ;
    *ptr = 15 ;
    printf("\n%d", j) ;
}
```

c) \_\_\_\_\_ operator used to get value at address stored in a pointer variable.

d) \_\_\_\_\_ is the keyword used to transfer control from a function back to the calling function.

e) \_\_\_\_\_ is function should be used to free the memory allocated by calloc().

f) Recursive functions are executed in \_\_\_\_\_ order.

g) We can initialize a string using string manipulation function \_\_\_\_\_

h) A variable declared inside a function by default assume \_\_\_\_\_ storage class.

P.T.O.



## SECTION – B

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

(7×2=14)

1. What is the purpose of getchar function ?
2. What is the difference between printf and sprintf ?
3. Mention the advantages of function.
4. What is the difference between scope and visibility of a variable ?
5. What is a pointer ?
6. Discuss the pre-processor directives in C language.
7. What is the difference between static and dynamic memory allocation ?
8. What is the difference between a function and a built-in function ?
9. How does an append mode of file differ from a write mode ?
10. What are the advantages of binary files over text files in C ?
11. What is the meaning of prototype of a function ?

## SECTION – C

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

(4×3=12)

12. What are the advantages of the functions ?
13. Explain enumerated data type ? Write one example.
14. What are the Text Files and Binary Files ?
15. Write a function prime that returns 1 if its argument is a prime number and returns zero otherwise.
16. Write a program using pointers to read in an array of integers and print its elements in reverse order.
17. Write a program that converts a string like "123" to an integer 124.

## SECTION – D

Write an essay on **any two** of the following questions :

(2×5=10)

18. Define the term file. How the file can be opened in C language ? Give syntax for opening a file in write mode and append mode.
  19. What is recursion ? Write a recursive program to find the sum of digits of a number.
  20. Write a C program which accepts two filenames on the command line and the contents of the first file to be put in the second file.
  21. Explain command line argument with an example.
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