

18U136

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Name:

Reg. No.....

FIRST SEMESTER B.Sc./BCA DEGREE EXAMINATION, NOVEMBER 2018

(Supplementary)

(CUCBCSS-UG)

CC15U BCS1 B01 / CC15U BCA1 B01 - PROBLEM SOLVING USING C

(Computer Science & Computer Applications– Core Course)

(2015 & 2016 Admissions)

Time: Three Hours

Maximum: 80 Marks

PART A

Answer *all* questions. Each question carries 1 mark.

1. The _____ are certain reserved words that have standard, predefined meanings in C.
2. The size of () operator returns _____.
3. Typecasting is used to convert _____.
4. C language is case sensitive. (True /False)
5. _____ character is used to represent the end of the statement.
6. _____ is an example of the exit controlled loop.
7. For multiline comment we use _____.
8. _____ is a collection of the elements of same datatype.
9. Write the equivalent shorthand assignment statement. $X=X*4$.
10. The _____ function gives the current position in the file.

(10 x 1 = 10 Marks)

PART B

Answer *all* questions. Each question carries 2 marks.

11. What is the importance of algorithms?
12. What is a symbolic constant?
13. What do you mean by the nesting of the loop?
14. What is the scope and life time of a variable?
15. What is the pointer variable and pointer expression?

(5 x 2 = 10 Marks)

PART C

Answer any *five* questions. Each question carries 4 marks.

16. What are the steps involved in executing a C program?
17. Write a C program to find the n^{th} Fibonacci number using recursion.

18. Explain call by value and call by reference?
19. Explain the working of jumps and skipping of loops.
20. Distinguish between structure and union with example.
21. Explain two dimensional and multi dimensional arrays with example.
22. Write a C Program to find the length of a string without using library functions.
23. Explain dynamic memory allocation.

(5 x 4 = 20 Marks)

PART D

Answer any *five* questions. Each question carries 8 marks.

24. Explain C program structure with suitable example.
25. What is a string? How to declare and initialize string?
26. Write a C program to find a given string is palindrome or not using string functions.
27. Explain the operator precedence and associativity.
28. Explain the decision making, branching statements.
29. Explain how to pass arrays into functions with suitable examples.
30. What is the relationship between the pointer and arrays. How to access character string through pointers.
31. Write a short note on.
 - a) open a file.
 - b) I/O operations on files.
 - c) closing a file.

(5 x 8 = 40 Marks)
