19U232S　　　　　　　　(Pages: 2)　　　　　　Name………………………

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SECOND SEMESTER B.C.A. DEGREE EXAMINATION, APRIL 2020
(CUCBCSS – UG)

(Supplementary/Improvement)

CC17U BCA2 B02 – PROBLEM SOLVING USING C
(Computer Application – Core Course)

(2017, 2018 Admissions)

Time: Three Hours　　　　　　　　　　　　　　　　　　Maximum: 80 Marks

PART - A
Answer *all* questions. Each question carries 1 mark.

1. What is identifier?

2. Define Array.

3. Name the header file which contains sqrt().

4. Predict the output

    int a = 5

    Float b = 2

    Int c = a/b

5. Compiler doesn't perform bounds checking on an array. True or False.

6. Alt+F5 is used for ………. in Turbo C.

7. Write an example for infinite loop.

8. Name the data structure used to implement function call.

9. Comments cannot be nested. True or False

10. Write two examples for keyword.

(10 x 1 = 10 Marks)

PART - B
Answer *all* questions. Each question carries 2 marks.

11. What are the different types of instructions?

12. Determine the hierarchy of operations and evaluate the following expression:

    i = 2 * 3 / 4 + 4 / 4 + 8 - 2 + 5 / 8

13. What are different roles of '*' in C?

14. Write a declaration statement to store the details students in your class.

15. What is function prototype?

16. What are the different pointer operations?

17. What is mean by pointer-to-pointer?

18. Find the largest of three numbers using conditional operator.

(8 x 2 = 16 Marks)

PART C
Answer any *six* questions. Each question carries 4 marks.

19. What are the different types of constants?

20. Define recursion. Example it with the program of finding the factorial of number.

21. What are the different file operations?

22. Distinguish between formal parameter, actual parameter and dummy parameter.

23. Write a program to determine whether the character entered is a capital letter, a small case letter, a digit or a special symbol.

24. Give an example to illustrate array of pointers.

25. Distinguish between structure and union.

26. Explain the use of *continue* statement with an example.

27. Write the statements to solve the same problem using different decision making statements.

(6 x 4 = 24 Marks)

PART D
Answer any *three* questions. Each question carries 10 marks.

28. What are the different types of functions used for I/O? Discuss about any ten functions.

29. Illustrate the different types of loops with examples. Also create the effect of a loop without using a loop statement.

30. Explain different storage classes with examples.

31. Write a program to sort N strings using pointer and function.

32. Discuss about different parameter passing techniques used in functions with examples.

(3 x 10 = 30 Marks)

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