C 62596	(Pages : 2)	Name
		Reg. No

# SECOND SEMESTER (CUCBCSS-UG) DEGREE EXAMINATION, MAY 2019

## BCA 2B 02—PROBLEM SOLVING USING C

(2017 Admissions)

Time: Three Hours

Maximum: 80 Marks

## Part A

Write short answer on all questions. Each question carries I, mark.

- 1. What is the significance of stdio.h?
- 2. Define what is character sets.
- 3. Define what are the different types of constants?
- 4. Explain conditional operators.
- 5. Define the difference between single character and string character.
- 3. Define the use of getchar () function.
- 7 IiVhat would the value of X in the expression after execution : X + = 20? Assuming the value o X is 3.
- 8. What is a multidimensional array?
- 9. What is recursive function?
- 10. What are the invalid pointer arithmetic?

 $(10 \times 1 = 10 \text{ marks})$ 

# Part B

Write a paragraph on all questions. Each question carries 2 marks.

- 11. Explain. What are the rules for forming an identifier in C?
- 12. Explain nesting of for loop with suitable example.
- 13. Write a program to find average of odd digits from an integer number using while loop.
- 14. What is the difference between j++ and ++j? Explain with example.
- 15. What is file? What is its need?

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- 16. What is pointer? How it is declared and accesses in C language?
- 17. Explain what are the different type conversions in expressions.
- 18. What is operator precedence and associatively? Explain.

 $(8 \times 2 = 16 \text{ marks})$ 

#### Part C

Write short essay on any six. Each question carries 4 marks.

- 19. What are various jumping statements? Explain each.
- 20. Explain the different format type specifications used in input output statements.
- 21. How do you declare a one dimensional array? How do you pass an array as an anniment to a fUnction using a Call by Reference method?
- 22. Write a C program to find the average of non-negative from a list cif numbers using continue statement and do not use array.
- 2:i. What is meant, by call by value? Explain how it is different fram. call by reference. Write C language program to support your answer.
- 24. Write a programti. to find sum of series s

up to n series.

- 25. What is a character array? Explain. Write a program to find vowels from a lino of to . Not ira any library functions.
- 26. Explain how the isrructure variable passed as a parameter to a function with example,
- 27. Explain creating a data file also opening and closing a (wei file with example...

(6 x 4. = 24 marks)

### Part D

Write essays on any three. Each question carries 10 marks.

28. (a) What are the different data types used in C? Explain each. (6 marks;

(b) Write C program to insert an. element anywhere in the array. (4 marks)

29. (a) What are the different of operators used in C? Explain each with example. (7 mark

(b) Write a program to find largest and second largest element in an array,. (3 marks)

30. (a) What are structure and unions? How a structure is created and referenced? Illustrate.

(6 marks)

(b) Write a program to count the number of words in a given line of text) Without using library 'Unctions.

(4 marks)

 $f3 \times 10 = 30 \text{ marks}$