C 62596

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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 x 1 = 10 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 ?

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 x 2 = 16 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 usingcontinue statement and do not use array.

2;¡. 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 x 10 = 30 marks]