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**D.K.M.COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1**  
**SEMESTER EXAMINATIONS**  
**NOVEMBER - 2017**  
**C PROGRAMMING**

**15CIS3A**

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**Time: 3 Hrs**

**Max.Marks: 75**

**SECTION-A (10 x 2 =20)**

**Answer ALL the questions.**

1. Define the structure of C program.
2. Name any two library functions used for string handling.
3. Write any two unformatted statements in C.
4. What are the uses of switch statement?
5. What are the needs for Functions?
6. Define call by value?
7. Define an Array. Give example.
8. Write any four features of Array.
9. What is meant by Enumerated data type?
10. What is the purpose of Union in C Programming?

**SECTION-B (5 x 5 =25)**

**Answer any FIVE of the following questions.**

11. Explain the structure of a C program. What are the advantages and applications of C language?
12. Discuss about relational and logical operators in 'C' language.
13. Write a C program to determine whether a number is 'odd' or 'even' and print the message.
14. Explain briefly the formatted and unformatted I / O functions in 'C'.
15. Explain functions with and without arguments with suitable examples.
16. Write a 'C' program to arrange an array of numbers in ascending order.
17. Explain in detail about Self Referential Structures.
18. Discuss about Bitwise Operators in 'C'.

**SECTION-C (3 x 10 =30)**

**Answer ALL the questions.**

19. (a) Explain the different data types in 'C' with examples.  
(Or)  
(b) Describe the looping statements in C with examples.
20. (a) Explain in detail about Recursion with suitable example.  
(Or)  
(b) Discuss about various storage classes available in C.
21. (a) Explain about structures and unions with suitable examples.  
(Or)  
(b) Explain in detail how an array can be passed as a parameter to function. Illustrate your answer with a sample program.

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