KUMARAGURU
college of technology
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MCA DEGREE EXAMINATIONS: JUNE 2015

(Regulation 2013)

First Semester

MASTER OF COMPUTER APPLICATIONS

P13CAT102: Problem Solving & Programming in C

Time: Three Hours   **Maximum Marks: 100**

Answer all the Questions:-
PART A (10 x 2 = 20 Marks)

1. Define Algorithm.

2. What do you understand by programming paradigm?

3. What are escape sequences in C Programming?

4. List all relational and logical operators.

5. How does switch statement differ from nested if?

6. Distinguish between break and continue.

7. Define array.

8. How is array of strings represented in C?

9. What are File I/O functions?

10. List all dynamic memory allocation functions.

Answer any FIVE Questions:-
PART B (5 x 16 = 80 Marks)

Q.No:11 is Compulsory

11. Write a C Program that would accept a string of any number of characters. Provide the function to count the number of vowels in the given string.

12. Explain in detail about problem solving aspects.

13. Write the general syntax and working method of all looping statements in C with an example.

14. (i) Define a structure called student with name, register number and age as data members. (10) Write a program to create an array of structures for 5 students. Read data into it and print the same.

    (ii)   How do you initialize the two dimensional arrays? (6)

15.   (i)   Write a program using pointers to read an array of strings and print in reverse order. (10)

    (ii)   Write short notes on storage classes in C. (6)

16.   (i)   Write a program to copy the content of one file to another file. Explain. (10)

    (ii)   Write short notes on command line arguments. (6)

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