Chettinad
College of Engineering & Technology

Internal Examination – I

Department of Computer Science and Engineering

Branch : CSE   Date: 11-02-17

Semester : 2nd Semester   Time:2.00 pm to 5.00 pm   Max. Marks: 100

Subject Codnde & Title: CS6202 - Programming and Data Structures - I

Staff in charge: B.Sathishkumar

Part – A   **Answer All the questions**   **(5 x 2 =10 Marks)**

1. Defin function with example.

2. With the help of the prinf function show how C handles functions with Varible number of arguments.

3. Define a array. Give an Example.

4. Define the need for Structure in c.

5. Give two example of preprocessor with example.

6. Difference between while and do while statement in C.

7. Define in line function with an example.

8. Give applications in which unions rather than structures can be used.

9. What is a Pointer?. How a variable is declared as a pointer?

10. List out the four advantage of Pointer?

Part – B   **Answer All the questions**   **(40 Marks)**

11. **a) 1.** Explain any 3 control statements in c with example. (8)

   2. Explain the detail about Array with example.   (8)

Or

b) 1. Write a suitable C program for passing an array as an argument to the functions.   (8)

   2. Explain in detail about Pointers with example.   (8)

12. **a) 1.** Write a suitable C program for passing a structure as an argument to the functions.   (8)

   2. Write short notes for Nested Structures and Union

Or   (8)

b) Explain in detail function of per processor with suitable example.   (A/M– 15)   (16)

13. a) 1. Explain any 3 Conditional Statements in c with example.

   2.Write a c program for matrices multiplication.   (8)

14. a) 1.write a C program that using function to perform the following operations using structure.   (16)

   1.Read   2.Write   3.Addition.   4.Multiplication

OR

b)1. State the advantage and disadvantage of Structure and Union with example.   (8)

15. a)1. Briefly discuess about Funcation with number of arguments and Function Pointers. (N/D – 14)   (16)

OR

b)1. Write a c program to multiply two matrices that are represented as pointers. Use a function pointer to the function Mulitply which take the two matrices as peramenter and prints result of the miltipilcation (A/m – 14)   (16)