1129
B.E. (Civil Engineering)
First Semester
CS-101: Programming Fundamentals
(Common with CSE)

Time allowed: 3 Hours   Max. Marks: 50

NOTE: *Attempt five questions in all, including Question No. I which is compulsory and selecting two questions from each Unit.*

x-x-x

I.   Attempt the following:-

a) Define what are global variable?

b) What is the significance of EOF function?

c) What do you understand by macros?

d) How-inline functions different from normal functions?

e) What do you understand by dangling pointer?   (5x2)

UNIT – I

II.   a) Describe switch statement. What is the difference between switch and else if statement?

b) What do you understand by operators? Explain Relational and Logical operators.
(2x5)

III. a) Write a program to print Fibonacci series using functions.

b) What do you understand by call by value and call by references in function? Discuss with suitable example.   (2x5)

IV.   a) What are strings? Explain various string handling functions.

b) Write a program using while loop to reverse the digits of the number.   (2x5)

UNIT – II

V.   a) What are structures? Distinguish between union and structure.

b) Define a structure called Cricket that will describe the information *player_name, team-name, batting_avg.* using Cricket declare an array player with 50 elements and write a program to read the information about all the 50 players and print a team_wise list containing name of player with their batting_avg.   (4,6)

P.T.O.

VI. a) What is pointer? Differentiate between pointer(*) and address (&) operator.

b) Write a program to count number of characters in a file created as text file.(2x5)

VII. Write a short note on:-

a) put() and getc()

b) C pre-processor

c) fread() and fputs()

d) advantages of pointers   (4x2½)

x-x-x