

Exam.Code:0905
Sub. Code: 6653

1128
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. 1 which is compulsory and selecting two questions from each Unit.

x-x-x

- I. Attempt the following:-
 - a) What is the purpose of main () function? 1
 - b) Differentiate between system software and application software.
 - c) What is the difference between ++a and a++?
 - d) Differentiate between structure and union.
 - e) Distinguish between printf() and fprintf() functions (5x2)

UNIT - I

- II.
 - a) What are the flow control statements? Explain looping statements in detail.
 - b) What are Arrays? Explain different types of arrays. (5,5)
- III.
 - a) Write a program using while loop to reverse the digits of the number.
 - b) What do you understand by operators? Explain increment and decrement operators. (5,5)
- IV.
 - a) Differentiate between call by value and call by references with suitable example in C.
 - b) Write a program to copy one string into another and count the number of character copied. (5,5)

UNIT - II

- V.
 - a) What is structure? How can entire structure be passed to a function?
 - 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.

(2)

- VI. a) What is pointer? Discuss pointer arithmetic in detail?
b) Write a program to read a character from one file and write it to another file. (5,5)
- VII. a) What is the purpose of the typedef feature? How this feature used in structure (4)
b) What are the primary advantages of using a data files.
c) How can a function return a pointer to its calling routine? (4,3.3)

x-x-x