(Following Roll No. to be filled by candidate)

110011319 0003

Roll No.

FIRST SEMESTER EXAMINATION 2015-16 ECS101 B.Tech.

Max. Marks: 100 COMPUTER CONCEPTS AND PROGRAMMING IN C

Note: Attempts all Questions. All Questions carry equal marks.

Time: 3 Hours

Attempt any four parts of the following.

Explain the difference between procedural languages and object oriented language.

What the features are of object oriented language. o.

Convert the given number to ó

(123.65)8 to decimal

to binary (832A)16

given subtraction of binary to perform numbers a subtract 1101 from 1101. complement two's Explain d.

Explain (n's) and (n-1)'s complement of 0

Bianry 2

Decimal

[4x5]

Attempt any four parts of the following. ni ni

with their types built in data user defined, derived and Explain

Write a program to convert the data types of a variable. 0

expressions and their types Explain 0

their and precedence their according to operators associatively. Explain d.

variable, register, ii)static on i) automatic note iii)global variable Write short 6

Attempt any FOUR parts of the following.

[4x5]

write a function using reference variables as arguments to swap values of a pair of integers

Write a program to print following outputs 0

333

4444

55555

- the syntax of control structures I xplain
- Explain the difference between i)call by values, ii)call by reference -
 - Explain Recursion and ite ation by example

following. Attempt any FOUR parts of the

[4x5]

- Write a function to read a natrix of m*n From Keyboard
 - using pointers How will a list be created 6
- ments of two 383 matrix Write a program to add el 0
 - cture Write a program using str. 7
- nters as function arguments Write a program to use pc

Attempt any four of the followir g.

Explain

ifstream

ofstream

fstream ij.

Difference between

put() and write()

getline() and read() get() and

macros Write

White a program to read a test file 0 75

Write a program to find an element in an array? 0

[4x5]