**D 91648**    (Pages : 2)    Name...................................

Reg. No··················

# THIRD SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2015

(CUCSS)

Computer Science

CSC 3C 03—NETWORK PROGRAMMING AND ADMINISTRATION

(2010-2013 Admissions)

Time : Three Hours    Maximum : 36 Weightage

*Answer* all *questions.*
*Each question carries 1 weightage.*

1. What is POP3 ?

2. Explain what you mean by Domain Name Resolution.

3. What is CIDR ?

4. What do you mean by port numbers ?

5. Write a note on pipes.

6. What is socket ? How it is created in Unix ?

7. Explain stream pipes.

8. What is TLI interface ?

9. What is the use of *fork* ( ) system call ?

10. Explain *rlogin.*

11. Explain Asynchronous I/O.

12. What is UDP ?

(12 x 1 = 12 weightage)

## Part B

*Answer any* **six** *questions.*
*Each question carries 2 weightage.*

13. Explain SNMP message Format.

14. Discuss about circuit switching and packet switching.

15. Explain the different classes of IP address.

16. Write a note on socket descriptors and file descriptors.

**Turn over**

17.   Explain the mechanism for locking files with semaphores.

18.   Discuss about various Address Conversion Routines.

19.   Explain the differences between FTP and TFTP.

20.   Write a note on external data representation.

21.   Write a note on I/O multiplexing.

( 6 x 2 = 12 weightage)

## Part C

*Answer any* three *questions.*
*Each question carries* 4 *weightage.*

22.   What is Domain Name Systems ? Discuss about any *three* root level Domain Names.

23.   Explain any *four* elementary Socket System Calls.

24.   Explain elementary TLI functions.

25.   Discuss the Remote Procedure Call concept in detail.

26.   Write a note on :

   (i)   RARP.

   (ii)   ICMP.

(3 x 4 = 12 weightage)