# CMRIT LIBRARY BANGALORE - 560 037 CDCS SCHEME

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## Fourth Semester M.Tech. Degree Examination, June/July 2018 Client Server Programming

Time: 3 hrs.

Max. Marks: 80

Note: Answer FIVE full questions, choosing one full question from each module.

#### Module-1

- 1 a. Explain the following technologies and concepts:
  - i) Privilege and complexity
  - ii) Connectionless VS connection oriented servers.

(06 Marks)

- o. Write a concurrent C-program to display value of i and sum of values.
- (06 Marks)

c. List out the conceptual operations of interface functionality.

(04 Marks)

- OR
- 2 a. What are standard Vs. Nonstandard client software? Explain parameterization of clients.

(08 Marks)

- b. With a neat diagram, explain how single sever program handles incoming requests concurrently.
  - Explain system call mechanism with a neat diagram.

(04 Marks) (04 Marks)

- Module-2
- 3 a. Explain Socket Descriptors and file descriptors with a neat diagram.

(08 Marks)

b. How do you identify location of a server? Explain in detail.

(08 Marks)

- OR
- 4 a. Explain the Generic Address structure.

(08 Marks)

- b. Explain the following:
  - i) Parsing an Address Argument
  - ii) Looking up a Domain Name.

(08 Marks)

- Module-3
- 5 a. Define procedural abstraction. Explain procedure Library for client programs.

(04 Marks)

b. Write a C program for implementation of connect UDP.

(06 Marks)

Write a note on ECHO service.

(06 Marks)

- OR
- 6 a. Write a C-program that forms connections by allocating a socket and connecting to it.

(10 Marks)

b. Write a note on TIME service.

(06 Marks)

- Module-4
- a. Define conceptual server Algorithm. Explain concurrent VS. Iterative servers.

rs. (06 Marks)

b. Explain the iterative, connection-oriented server Algorithm.c. Explain the important problem of server Deadlock.

(06 Marks)

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(04 Marks)

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OR

8 a. Differentiate between connection oriented and connectionless servers, with respect to server software Design. (06 Marks)

b. Explain how, do you optimize the stateless servers.

(10 Marks)

#### Module-5

9 a. Write a C-program on UDP TIME server.

(08 Marks)

b. Explain connection Termination and server vulnerability.

(04 Marks)

c. Write a note on cleaning up Errant processes.

(04 Marks)

#### OR

a. Explain, how do you create a passive socket, with supporting C-program. (06 Marks)

b. With a neat diagram, explain the process structure of a concurrent, connection oriented server.

c. Write a note on allocating a passive TCP socket.

(06 Marks)

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