

University: JNTU Hyderabad

Paper code: 07A70505

Set No: 4

Year of Examination: 2011

Subject: Networking Programming

Branch: CSE

Time: 3 hours Max. Marks: 80

Answer any five questions

All questions carry equal marks

1.a) Describe the syntax and purpose of the each of the following:

i) Socket ii) Bind iii) Accept iv) Listen v) Connect

b) Explain briefly the byte order and address conversion functions. [16]

2.a) Explain with a diagram signal driven I/O model.

b) What are the differences in functionality between the poll and select functions?

[8+8]

3.a) What are named and unnamed pipes? How are they created? Give an example.

b) Explain in detail how the IPC functionality is provided by message queues. [8+8]

4.a) Explain with a diagram the steps that normally take place in a remote procedure call.

b) Describe the getaddr info function as applicable to IPV6. Write briefly about IPV4 socket options. [8+8]

5.a) Explain with a sample code how a connected UDP socket can be used to determine the outgoing interface.

b) Discuss the lack of flow control with UDP with a suitable example. [8+8]

6.a) What are signals? Describe the methods of handling SIGCHLD signals.

b) What are the differences between concurrent servers and iterative servers? Give examples of services handled in iterative and concurrent fashions. [8+8]

7.a) Describe Terminal line disciplines, Terminal mode and rlogin with suitable examples.

b) Discuss the uses of the following TCP Socket options:

i) TCP\_MAXSEG ii) TCP\_NODELAY. [16]

8. Write notes on the following:

a) DNS and gethost by name functions, Resolver options.

b) Crashing and Rebooting of Server Host in TCP Client/Server application. [16]