

Term End Examination - May 2012

Course: ITE311 - Network Programming Slot: G1+TG1

Time: Three Hours Max.Marks:100

PART – A (8 X 5 = 40 Marks) Answer ALL Questions

1. a) Differentiate Applets and Servlets.

[3]

b) List the various applications of network programming.

- [2]
- 2. An organization is allotted IP address from 192.168.2.1 to 192.168.2.254. The organization now wants to separate the data for its various departments. Briefly explain how sub-netting concept would help in this scenario.
- 3. Implement a java code which can retrieve the ipaddresses used by the domains and sub domains of www.emc.com
- 4. SITE is hosting an International Conference on Backup and Recovery technologies. You as a lead student coordinator need to inform to all VIT students about the conference. Implement a java code using appropriate address type to pass the above information.
- 5. Briefly explain client server interaction in UDP with a flow chart.
- 6. a) List the elements of client server computing.

[2]

b) The server creates temporary ports upon connection acceptance. Why?

[3]

7. State and explain the process of sending and receiving UDP datagrams.

[2.5+2.5]

8. Sketch and explain the RMI Architecture.

PART - B (6 X 10 = 60 Marks) Answer any <u>SIX</u> Questions

- 9. Compare and analyze OSI and TCP layered model.
- 10. Explain the thread state diagram with a neat sketch.

An organization needs to protect its data from the external network. The security auditor suggest I.T manager to use the following techniques:Usage of HTTPS with diffie helman key exchange, tripe DES for data encryption, SHA 512 for hashing and DSS for digital signature.

- 12. Elucidate the HttpURLConnection methods using seven case sensitive strings.
- 13. Write a program that lists all the names currently bound in a particular registry.
- 14. Describe the working of a socket in a client-server network model with a neat diagram. [5+5] Also explain the various socket function calls.
- 15. Write a JAVA program to download password protected web pages.
- 16. Write short notes on:

Implement the same using java code.

a) Datagram format of TCP. [5]b) Get contest type () and get contest length ()c) Features of RMI. [2]

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