

FACULTY OF ENGINEERING

B. E. 3 / 4 (CSE) II Semester (Main) Examination, April / May 2007

Subject : **Computer Networks**

Time : 3 Hours]

[Max. Marks : 75

Part – A (25 Marks)

Note : Answer all questions of Part-A and answer any five questions from Part-B.

1. Define : Broadcasting, Multicasting, Unicasting. (3)
2. What are choke packets ? (2)
3. What is initial connection protocol used for ? (2)
4. List out the applications of Real Time Transport Protocol. (3)
5. Differentiate between blocking and Non-blocking I/O. (2)
6. What are the different socket options ? (3)
7. What is the difference between caching and mirroring ? (2)
8. Can a machine with a single DNS name have multiple IP addresses ?
If so, How could this occur ? (3)
9. What is denial of service attack ? (2)
10. What is PGP ? Give two reasons why PGP compresses messages. (3)

Part – B (50 Marks)

11. (a) How are Routing algorithms classified ? Explain the shortest path routing by means of an example. (5)
(b) With a neat sketch, explain the different fields of IP Header. (5)
12. (a) What are the different Timers employed in TCP ? Discuss. (5+5)
(b) Explain the TCP transmission policy.
13. (a) What is Out-of-band data ? Explain. (5+5)
(b) Write a note on XTI streams.
14. (a) Differentiate between static and dynamic web documents. (6+4)
(b) Suppose that you want to send an MP₃ file to a friend, but your friend's ISP limits the amount of incoming mail to 1MB and the MP₃ file is 4MB. Is there a way to handle this situation.
15. (a) Explain the Advanced Encryption Standard. (5+5)
(b) Explain the authentication using Kerberos.
16. (a) Explain the SMTP. (5+5)
(b) Distinguish between Digital and Streaming audio.
17. Write short notes on ~~any~~ **two** of the following : (5+5)
 - (a) Tunneling
 - (b) IP_{v6}
 - (c) Digital signatures

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