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Question Paper Code : 13356

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2012.

Fifth Semester

Electronics and Communication Engineering

080290032 — COMPUTER NETWORKS

(Regulation 2008)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is meant by Switched Networks?
2. How is throughput computed in a packet-switched network?
3. State the function of transport layer.
4. Differentiate TCP from UDP protocol.
5. Define Router.
6. What is meant by Mobile IP?
7. State the function of link layer.
8. What are tasks performed by WiFi?
9. Define the principles of Cryptography.
10. What is meant by Firewalls?

PART B — (5 × 16 = 80 marks)

11. (a) Describe the architecture of packet switched network and derive the relations to compute delay, and throughput of the same.

Or

- (b) Explain the functional block of HTTP protocol and electronic mail transfer in IP network.

12. (a) Explain in detail about the Multiplexing and UDP.

Or

- (b) State the principles of congestion control and explain the traditional TCP congestion control protocol adopted in computer network.

13. (a) Briefly Explain about the Virtual circuit and Datagram networks.

Or

- (b) Comprehend on Broadcast and Multicast routing.

14. (a) Stat the difference between Broadcast and Multicast routing protocols and explain any one multi cast routing protocol.

Or

- (b) Explain CSMA multiple access protocol and mention the difference between CSMA and RTS/CTS MAC protocol.

15. (a) Write short notes on message integrity and security in email.

Or

- (b) Describe the security algorithm for an Intrusion Detection system.
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