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Question Paper Code : 31371

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2013.

Sixth Semester

Electronics and Communication Engineering

EC 2352/EC 62/10144 EC 603/10144 BME 41 — COMPUTER NETWORKS

(Common to Seventh Semester Biomedical Engineering)

(Regulation 2008/2010)

(Also Common to PTEC 2352 — Computer Networks for B.E. (Part-Time) Fifth Semester Electronics and Communication Engineering — Regulation 2009)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is the similarity between Transport layer and data link layer?
2. What are the features of data gram networks?
3. Define the characteristics of frame relay.
4. What are the advantages of Bluetooth?
5. Compare IPv4 and IPv6 addressing.
6. What is the use of multicast routing?
7. What is meant by choke packet? How it is use for congestion control?
8. Define deadlock situation in congestion.
9. What is meant by DNS?
10. Define Kerberos.

PART B — (5 × 16 = 80 marks)

11. (a) Explain in detail about circuit switching and data gram switching with diagram. (16)
Or
(b) Discuss about OSI reference model with neat sketch (16)

12. (a) Explain in detail about Bit oriented data link control protocol with neat diagram. (16)

Or

(b) Describe in detail about architecture and layers of Frame Relay with neat sketch. (16)

13. (a) Write short notes on following terms

(i) ICMP

(ii) RARP

(16)

Or

(b) Explain in detail about different Multicast forwarding algorithms for routing. (16)

14. (a) Explain in detail about Congestion control techniques in transport layer. (16)

Or

(b) Explain in detail about transport layer protocols with neat diagram. (16)

15. (a) Explain in detail about symmetric key algorithms with neat sketch. (16)

Or

(b) Explain in detail about communication security and authentication with neat example. (16)