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Reg. No. : | | | | | | | | | | | | |

Question Paper Code : 91415

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2014.

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. Differentiate the term segment and packet.

2. List the protocols used in the application layer of OSI model.

3. Differentiate Go-back-n and Selective reject ARQ error control method.

4. Draw 802.3 MAC frame structure.

5. Specify the range of class-c IPv4 address.

6. Differentiate ARP and RARP.

7. Mention the application of TCP and UDP protocol.

8. Specify the port numbers for FTP and HTTP application.

9. What is the purpose of DNS server?

10. Differentiate active attack and passive attack in network.

PART B — (5 × 16 = 80 marks)

11. (a) Discuss the function of Data link layer and Session layer in detail.

Or

(b) Explain about Terrestrial microwave and satellite communication with neat diagram.

12. (a) Explain the operation of sliding window protocol with example.

Or

(b) Explain switched Ethernet, Fast Ethernet and Gigabit Ethernet.

13. (a) Explain the operation of link state routing protocol with example.

Or

(b) Explain the operation of Distance vector routing protocol with example.

14. (a) Explain the congestion control technique in transport layer of OSI model.

Or

(b) Discuss in detail about the techniques used to improve QoS.

15. (a) Discuss about WWW in terms of HTML, Hypertext, Hypermedia along with browser architecture.

Or

(b) Explain symmetric key encryption and decryption algorithm with example.

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