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

Fifth Semester

Computer Science Engineering

CS2302   Computer Networks

(Common to Information

Technology) (Regulation 2008)

Time**:** 3 hours   Maximum**:** 100 marks

Answer ALL questions

PART A   (10 × 2 = 20 marks)

1   What are the major duties of Network layer?

2.   What are the two different types of errors occurred during data transmission?

3.   List any four IEEE 802 standards with its name.

4.   Define Bridge and Switch.

5.   Expand and define MTU.

6.   Mention any four applications of multicasting.

7.   Draw TCP header format.

8.   What do you mean by QoS?

9.   Define SNMP.

10.   What is PGP?

PART B   (5 × 16 = 80 marks)

11 a) Explain briefly about OSI layers and its functions with necessary
diagram.   (16)

[OR]

b)   Write about Error correction and detection in detail.   (16)

12 a) Discuss about physical properties and medium access protocol of
Ethernet.   (16)

[OR]

b)   Explain about physical properties, timed token algorithm, frame   (16)
format of FDDI.

13 a) Discuss briefly about RIP and OSPF.   (16)

                                                          [OR]

    b) Write about IPv6 in detail. What are its new features and   (16)
         improvements?

14 a) Draw and explain TCP state transition diagram.   (16)

                                                           [OR]

    b) Explain the following:
       (i) DEC bit   (8)
       (ii) RED   (8)

15 a) Discuss briefly about Electronic mail (SMTP, MIME and IMAP)   (16)

                                                            [OR]

    b) Explain the following:
       (i) DEC bit   (8)
       (ii) RED   (8)