862

M.Tech 2nd Semester Examination

Computer Networks

MT-202

Time : 3 Hours   Max. Marks : 100

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary continuation sheet will be issued.

Note :   Attempt one question from 1 and 2. Attempt one question from 3 and 4. Attempt one question from 5 and 6. Attempt one question from 7 and 8. Question 9 is compulsory.

1. (a)   Draw and explain the structure of telephone system.   **(10)**

    (b)   Write a note on geostatinary satellites. Compare these with other type of satellites.   **(10)**

2   (a)   Compare and contrast active hub and passive hub star topology.   **(10)**

    (b)   Write a note on Fourier Analysis.   **(10)**

3. (a)   Write a explain the procedure to calculate CRC.   **(10)**

    (b)   Draw and explain the typical blue tooth data frame.   **(10)**

4. (a)   Write a note on channelisation.   **(10)**

    (b)   Write three protocols of channelisation. **(10)**

5. (a) Write a note on OSPF. Write various binds of networks and connections supported by it. **(10)**

   (b) Explain the addressing scheme used by transport layer. **(10)**

6. (a) Write a way to resemble IP fragments at the destination. **(10)**

   (b) How congestion control is done in datagram subnets? **(10)**

7. (a) What is voice over IP? What problems are faced by it? **(10)**

   (b) Explain all the steps to be followed in DES algorithm. **(10)**

8. What are various threats to network security? How they can be handled? **(20)**

9. (a) Define stegnography. **(2)**

   (b) What are FTP transmission modes? **(2)**

   (c) What is the purpose of inverse domain? **(2)**

   (d) How spanning tree helps in reduced traffic? Also give one example to support the answer. **(4)**

   (e) Give two examples where connection oriented service is appropriate than connection less service. **(2)**

   (f) Explain the functions performed by polling in controlled access. **(4)**

   (g) List two advantages and two disadvantages of having international standards. **(4)**