Printed Pages—3   TCS—602

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 1078   Roll No. [   ]

B.Tech.

(SEM VI) EVEN SEMESTER THEORY EXAMINATION, 2009-2010

COMPUTER NETWORKS

Time : 3 Hours   Total Marks : 100

Note :   (i)   Attempt **ALL** questions.

(ii)   You may make suitbable assumptions where necessary.

1.   Attempt *any four* of the following :

(a)   Which OSI layer handles each of the following ?

(i)   Framing

(ii)   Routing

(b)   What are the two reasons for using layered protocols ?

(c)   How much minimum bandwidth is required to digitally transmit a analog stream which is generated at 50 kHz after manchester encoding ?

(d)   State with reasons if circuit switching is better suited for real time traffic.

(e)   What are the number of cable links required for *n* devices connected in mesh, ring, bus and star topology ?

TCS—602   1   *[Turn Over*

Attempt *any two* parts of the following :

(a) Explain TCP congestion control algorithm in Internet ?

(b) Explain TCP segment header ? Also discuss the TCP connection management ?

(c) Discuss various Qos (qsuality of services) primitives looked at transport layer.

5. Attempt *any two* parts of the following :

(a) (i) When web pages are sent out, they are prefixed by MIME headers. Why ?

    (ii) Explain the difference between http and https protocols ?

(b) What is the difference between active and dynamic web page ? Explain the structure of interface between access of a data base over webpages ?

(c) Write short notes on :

    (i) DNS

    (ii) SNMP

    (iii) XML

- o 0 o -