751

Reg. No. : .....

Name : .....

First Semester M.Tech. Degree Examination, March 2014
(2008 Scheme)
Computer Science Engineering
RCC 1005 : ADVANCED NETWORKS

Time : 3 Hours Max. Marks : 100

Instructions : *Answer* ***any 5*** *questions.*
All *questions carry* ***equal*** *marks.*

1. a) Write detailed notes on the Internet Protocol (IPv4). 12
   b) Illustrate TCP flow control with an example. 8
2. a) Describe the structure of an ATM cell in detail. Explain the functioning of the header error control algorithm. 10
   b) What is meant by information entropy ? Write short notes on Huffman Coding with a suitable example. 10
3. a) Differentiate between interior and exterior routing protocols. Give a brief overview of the RIP routing protocol. 12
   b) How does congestion arise in networks ? Describe some methods used to control congestion. 8
4. a) Write brief notes on the Integrated Services Architecture. 14
   b) Distinguish between virtual channel connections and virtual path connections in ATM. 6
5. Give a detailed overview of MPLS approach for improving QoS in data networks. 20
6. a) Discuss the various approaches used for setting the value of retransmission timer in TCP. 10
   b) Distinguish between lossless and lossy compression. Write brief notes on run length encoding technique for lossless compression. 10
