USN ☐☐☐☐☐☐☐☐☐☐

06CS64

Sixth Semester B.E. Degree Examination, June/July 2014
Computer Network – II

Time: 3 hrs.

Max. Marks:100

Note: *Answer FIVE full questions, selecting atleast TWO questions from each part.*

PART – A

1 a. Differentiate between connection oriented and connectionless services. **(04 Marks)**
   b. With a neat diagram, explain virtual circuit packet switching. **(10 Marks)**
   c. Explain the operations of an ATM multiplexer with a diagram. **(06 Marks)**

2 a. Explain leaky bucket algorithm used for policing. **(08 Marks)**
   b. With neat diagram, explain IPV4 header format. **(06 Marks)**
   c. Explain address resolution protocol. **(06 Marks)**

3 a. Explain the three way handshake for establishing a TCP connection. **(10 Marks)**
   b. Explain in detail, the operation of open shortest path first. **(10 Marks)**

4 a. Explain any five QoS parameters of ATM networks. **(10 Marks)**
   b. Write a short note on AAL1. **(06 Marks)**
   c. Explain classical IP over ATM. **(04 Marks)**

PART – B

5 a. Define network management. Explain the different tasks of network management. **(08 Marks)**
   b. Explain SNMP with SNMP messages. **(08 Marks)**
   c. Explain any two components of network management. **(04 Marks)**

6 a. With a neat diagram, explain the differentiated services QoS. **(08 Marks)**
   b. Explain the various types of resource allocation schemes. **(06 Marks)**
   c. Explain the admission control and resource reservation protocol. **(06 Marks)**

7 a. Explain the Huffman encoding with an example. **(06 Marks)**
   b. Explain in brief SIP. **(08 Marks)**
   c. Explain in brief the structure of a SCTP packet. **(06 Marks)**

8 a. Explain DSDV and DSR protocol in Ad-hoc network. **(10 Marks)**
   b. With a neat diagram, explain clustering in sensor networks and protocol stack. **(10 Marks)**

* * * * *