Hall Ticket Number:

III/IV B.Tech (Supplementary) DEGREE EXAMINATION

April, 2017

Sixth Semester   **Computer Networks**

Time: Three Hours   **Maximum :** 60 Marks

Answer Question No.1 compulsorily.   (1X12 = 12 Marks)

Answer ONE question from each unit.   (4X12=48 Marks)

1. Answer all questions   (1X12=12 Marks)

     a.   Differentiate WAN & MAN.
     b.   What is meant by Packet Switching?
     c.   How multicasting is different from Broadcasting?
     d.   Define a subnet.
     e.   What is the need of tunneling?
     f.   Define VitualCircuit.
     g.   List out Berkeley Socket primitives..
     h.   What is RPC?
     i.   Which layer is responsible for physical addressing?
     j.   Expand POP3 and IMAP.
     k.   List the elements of Transport protocol
     l.   What is DNS?

UNIT I

2.a   What is the principle difference between Connectionless communication and Connection-oriented communication?   6M

2.b   Compare and contrast OSI & TCP/IP models   6M

(OR)

3.a   Explain about Ethernet and flodding.   6M

3.b   Compare virtual –circuit and datagram subnets.   6M

UNIT II

4.   Explain about QoS of network layer.   12M

(OR)

5.a   What is Internetworking? Explain its concept.   6M

5.b   Describe OSPF interior Gateway Routing protocol.   6M

UNIT III

6.a   List and explain Transport service primitives.   6M

6.b   What is multiplexing? Explain its functionality.   6M

(OR)

7.a   Describe TCP and its header format with a neat sketch.   6M

7.b   Explain about TCP connection Establishment and Release.   6M

UNIT IV

8.a   What is a Name space? Explain its concept with example.   6M

8.b   Explain i) User Agent   ii) Electronic Mail Architecture   6M

(OR)

9.   Explain the following.

        i) Domain Name System   6M

        ii) WWW   6M