SHRI SANT GADGE BABA COLLEGE OF ENGINEERING & TECHNOLOGY, BHUSAWAL

Department of Electronics & Communication Engineering

Class: BE (E&C)   **Subject: CCN**
Semester: First   **Session: 2013-14**

Assignment-I

Q: 1. Explain the system architecture of Narrowband ISDN with suitable diagram.

Q: 2. Give features of ATM networks? With a proper sketch explain ATM cell header format.

Q: 3. Explain the concept of Internet with respective to other networks.

Q: 4. Enlist different Wireless transmission techniques & explain anyone in details.

Q: 5. What do you understand by term circuit switching & packet switching network. Discuss in brief Virtual switching.

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Assignment-II

Q: 1. What is IEEE 802.2 Standard? Explain with the help of header format & relevant diagrams.

Q: 2. Give the different transmission modes in HDLC? Also explain HDLC frame format with neat

diagram.

Q: 3. Explain CSMA/CD protocol as applied to LAN network with relevant diagrams & frame format.

Q: 4. Enlist different multiple access protocols. Explain any one.

Q: 5. Explain design issues related with data link layer in details.

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Assignment-III

Q: 1. Explain any one type of congestion control algorithm.

Q: 2. How shortest path is selected by a router? Explain in detail hierarchical routing by appropriate

representation.

Q: 3. Give the comparison between virtual circuit & datagram approaches used in packet switching

with reference to different issues.

Q: 4. What is Routing? Why it is essential? Explain the basic types of Routing Algorithms.

Q: 5. Explain at each hop, how flow is reduced in hop by hop choke packet.

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Assignment-IV

Q: 1. What is ARP? How ARP is implemented? Draw ARP protocol format & explain in brief.

Q: 2. Explain concept of checksum & fragmentation.

Q: 3. With the help of neat sketches explain various classes of IP addressing.

Q: 4. How does DHCP work explain it in detail.

Q: 5. What are the advantages of IPV_6 over IPV_4? With the appropriate diagram explain different extension headers used in it.

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Assignment-V

Q: 1. Explain in brief how SNMP provide access to the management information.

Q: 2. Explain how flow control & error control are performed in transport layer using TCP.

Q: 3. With the help of proper structure explain in detail various fields as a part of TCP packet.

Q: 4. Explain concept of WWW & e-mail applications in details.

Q: 5. For a Domain Name System explain message format for Name server & draw the header

format.