


2008 ANDHRA UNIVERSITY
B.E/B.TECH DEGREE EXAMINATIONS
NETWORK ENGINEERING
(ELECTRONICS AND COMMUNICATION ENGINEERING)

TIME: 3 HOUR
MARK: 70

Question No.1 Is Compulsory And Answer Any Other 5 Questions
All Questions Carry Equal Marks

- 1) 
- a) what are sockets in a transport layer?
 - b) explain hamma distance
 - c) what is link state protocol
 - d) what is flooding?
 - e) what is datagram?
 - f) what is adaptive tree protocol?
 - g) Draw the header part of TCP protocols
- 2)
- a) List advantages and disadvantages of having International standards for network protocols
 - b) why was SMPS designed as a connectionless network and frame relay as a connection oriented one
- 3)
- a) compare the working of demodulator part of a modem and the codes part of cedes
 - b) explain bus, star and ring topologies with their advantages and disadvantages
- 4)
- a) Explain CSMA/CD sending and receiving algorithms
 - b) what are the issues of Data link layer? Discuss one bit sliding window protocol
- 5)
- a) Explain briefly the error detection and correction techniques used in data link layer
 - b) show the different fields of an ethernet frame and explain 802.3 MAC sublayer protocol
- 6)
- a) explain secret key and public key algorithms in application layer
 - b) write the features of SMTP protocol and discuss the architecture of e-mail system
- 7) a) Explain how crash recovery is achieved in transport layer
- b) Describe the token bucket algorith for congestion control
- 8) write short notes on any 3 of the following
- a) ALOHA protocol
 - b) FTP
 - c) protocols and their performance
 - d) FDDI