UNIT-2

1. Explain the operation of the bit-oriented protocol HDLC with the required frames	12M
2. Explain the various error detection and correction Mechanisms used in computer network	12M
3. Discuss about a) GO BACK NARQ	6M
b) Selective repeat ARQ	6M
4. Explain about the Elementary data link protocols?.	12M
5. a. Discuss stop and wait protocol	7M
b. Explain about the Carrier Sense Multiple Access Protocols?	5M
6. Briefly discuss about data link layer design issues?	12M
7. Explain about the data Link Layer switching	12M
8. Explain MAC sub layer protocol and frame structure of IEEE 802.11.	12M
9. Describe sliding window protocol using Go back n.	12
10. Compare and distinguish in detail the concept of Virtual-Circuit and Data gram Networks	. 12M
UNIT-3	
 a.)State the major difference between distance vector routing and link state routing. b) How these routing techniques work 	7M 5M
2. Explain about the Routing algorithms.	12M
3. Discuss about a) concept of leaky bucket algorithm?b) token bucket algorithm with neat diagram	7M 5M
4. Explain in detail congestion control algorithms	12M
5. Explain CSMA/CD protocol	12M
6. Classify the functions of Bridges & Switches in brief.	12M
7. Explain the function of ARP & RARP	12M
7. Explain the function of ARP & RARP8. a. Explain distance vector routing in detail.	12M 7M
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QUESTION BAN	K 2019
10. a) Explain about the Shortest Path Algorithm?	7M
b) Explain packet switching in detail.	5M
UNIT-4	
1. a) Explain the duties of transport layer.	6M
b) Write short notes on performance issues of transport layer	6M
2. Show the different approaches in Packet Switching. Explain them in detail.	1014
3. Enumerate the mechanism of three way handshake protocol for TCP	12M
4. Explain in detailed about the Transport Layer.	12M 12M
5. Describe about a) TCP connection management.	5M
b) Avoidance of congestion in TCP	7M
6. Explain the function of TCP/IP protocol.7. a) Explain about elements of transport protocols	12M 7M
b) Briefly explain the internet transport protocols	5M
8. a) Discuss TCP and its various operations	12M
b) Write short notes on User Datagram Protocol (UDP).	12M
9. Explain the operation of TCP with neat sketch.	12M
10. Discuss the various timers used by TCP to perform its various operations.	12M
UNIT-5	
1. Explain how security is provided in interact operations in detail	12N
2. a) Explain the working of Electronic mail. How SMTP used in Email applications	6M
b) List and discuss the types of DNS records.	6M
3. Discuss in detail about world wide web	12M
4. a) Explain the encryption and decryption methods.	6M
b) Discuss Application layer in details	6M
5. Explain in detail about function and structure of e-mail protocol.	12M
6. a) Discuss the File transfer Protocol (FTP)with a neat diagram.	6M
b) Explain briefly simple network management protocol	6M

QUESTION BANK	2019
7. Write short notes on IMAP and MIME with an example	12M
8. a)Discuss the features of HTTP and also discuss how HTTP works.	6M
b) Explain about Application layer and its services in detail?	6M
9. Describe the role of a DNS on a computer network with reference to its components.	12M
10. a) Write briefly about World wide webb) Describe about High speed LANs	6M 6M