**BHARTIYA INSTIYUTE OF ENGINEERING & TECHNOLOGY-SIKAR**

CLASS VI SEM

SUB: COMPUTER NETWORKS (6CS1A)

QUESTION BANK

**UNIT-1**

Q1. Describe the working principals, advantages and disadvantages of the distance vector routing algorithms?

Q2. Q1. Describe the working principals, advantages and disadvantages of the link state routing algorithms?

Q3. Explain the reverse path forwarding?

Q4. Answer the following associated with congestion algorithm:

1. Differentiate between token bucket and leaky bucket algorithm.
2. Describe all the parameters used in flow specification technique.

Q5. What do you mean by choke packets? Write Process in which we are using these packets?

Q6. What are network layer design issues and its functions?

**UNIT-2**

Q1. What is virtual circuit? Compare it with datagram approach.

Q2.State the concept of tunneling. Explain by suitable example.

Q3.Discuss the classes of IPV4.Also explains provision of multicast broadcast support in IPV4.

Q4. Write short notes on following:

1. IPV4 v/s IPV6
2. Mobile IP

Q5. Explain the following protocols 1.RARP v/s BOOTP 2. POP3 v/s IMAP

Q6. How IP addresses are assigned? Describe with suitable example.

**UNIT-3**

Q.1 What are the various transport layer services?

Q2. Explain how TCP provide flow control?

Q3. Explain TCP & UDP?

Q4. What are the basic principles’ of reliable data transfer?

Q5. Explain the stop and wait protocol and differentiate with sliding window protocol?

Q6.What are the differences between connectionless and connection oriented services?

**UNIT-4**

Q1.Explain TCP service model in detail?

Q2. Explain TCP header segment structure with the help of diagram?

Q3. How TCP connection establishes and release in network?

Q4. What do you mean by Mobile TCP?

Q5. Explain TCP congestion control with its fairness?

**UNIT-5**

Q1. Explain WWW protocol in detail?

Q2. How DNS works? Explain with example?

Q3. Explain FTP in detail?

Q4.Write short note on exploiting heterogeneity?

Q5. What is the E-mail privacy? Discuss the E-mail security package?