

**JAYA ENGINEERING COLLEGE
TIRUNNRAVUR- 602024**

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ALL POSSIBLE QUESTIONS

SUB CODE : EC2352

YEAR / SEM : III / VI

SUB : COMPUTER NETWORKS

UNIT – I

1. Explain in detail various guided transmission media.
2. Explain the data transfer in cable TV.
3. Explain in detail about network dependent and network independent layers in OSI reference model.
4. Explain the virtual circuit switching network with neat diagram.
5. Explain TCP / IP reference model with neat sketch.
6. Compare the performance of TCP / IP with OSI reference model.

UNIT – II

1. Discuss in detail one-bit sliding window protocol, Go Back N and selective Repeat protocol.
2. With diagram, Explain Bluetooth Protocol stack.
3. Describe in detail about the architecture and layers of ATM.
4. With the help of a neat diagram explain in detail about the stop and wait ARQ protocol in detail.
5. Compare the standards of Fast Ethernet, Gigabit Ethernet and Ten Gigabit Ethernet.

UNIT – III

1. Explain link state routing and broadcast routing with example.
2. How do IP addresses get mapped onto data link layer addresses such as Ethernet ? Explain with an Example.
3. Explain the IPv6 addressing schemes in detail.
4. Write short notes on the following:
 - i) BOOTP,
 - ii) Multicast routing.
5. Explain ICMP message format and error reporting in detail.

UNIT – IV

1. With neat diagram, explain TCP connection establishment in the normal case and call collision case.
2. Explain in detail window management in TCP.
3. Explain the congestion control techniques in TCP.
4. Explain in detail about transport layer protocols with neat diagram.
5. Explain the following characteristic :
 - (i) Reliability.
 - (ii) Delay.
 - (iii) Jitter.
 - (iv) Bandwidth.
6. Explain the default timer mechanism followed in TCP.

UNIT – V

1. Explain HTTP with example.
2. With an example explain the authentication using Kerberos and public key Cryptography.
3. Explain in detail about symmetric key algorithms with neat sketch.
4. Explain in detail about the following:
 - i) DNS,
 - ii) HTTP.
5. Explain the architecture of WWW and explain the various blocks in it.
6. Explain the RSA algorithm with an example.