

B.E., DEGREE EXAMINATIONS: NOV/DEC 2012

Seventh Semester.

ELECTRONICS AND COMMUNICATION ENGINEERING

ECE129 : High Speed Networks

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. Frame Relay has _____
 - a) Only the physical layer
 - b) Only the data link
 - c) The physical and data link layers
 - d) The physical, data link and network layers
2. A _____ is defined as a small, fixed size block of information
 - a) frame
 - b) Packet
 - c) Cell
 - d) None of the above
3. In _____ there is no communication between the congested node or nodes and the source. The source guesses that there is congestion somewhere in the network from other symptoms
 - a) Back Pressure
 - b) Choke Packet
 - c) Implicit signaling
 - d) Explicit signaling
4. _____ eliminates the varying delay times associated with different size packets
 - a) X.25
 - b) Frame Relay
 - c) ATM
 - d) All of the above
5. In the _____ algorithm of TCP, the size of the congestion window increases additively until congestion is deleted.
 - a) Slow start
 - b) Congestion avoidance
 - c) Congestion detection
 - d) None of the above
6. In the _____ traffic model, the data rate changes suddenly in a very short time
 - a) Constant bit rate
 - b) Variable bit rate
 - c) Bursty
 - d) None of the above
7. In _____ queuing, the packets are assigned to different classes and admitted to different queues. The queues however are weighted based on the priority of the queue. The system processes packets in each queue in a round robin fashion with the number of packets selected from each queue based on the corresponding weight.
 - a) FIFO
 - b) Priority
 - c) Weighted Fair
 - d) None of the above

b) Explain in detail the effects of congestion and the important techniques to be followed to deal with congestion.

23. a) Discuss in detail the various algorithms to improve the timer management mechanism of TCP.

(OR)

b) Discuss the traffic control, traffic management in ATM networks.

24. a) Explain, with neat diagram, the significance, components, services and the architecture of Integrated services.

(OR)

b) Explain the various queuing discipline and its limitations.

25. a) Discuss in detail Data flow, operations and protocol mechanism of RSVP.

(OR)

b) Explain the following:

(i) RTP (7)

(ii) MPLS (7)
