

Reg. No.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**Question Paper Code : 51367**

**B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2016**

**Seventh Semester**

**Electronics and Communication Engineering**

**CS 2060/CS 807/EC 1009/10144 ECE 33 – HIGH SPEED NETWORKS**

**(Regulations 2008/2010)**

**(Also common to PTCS 2060/10144 ECE 33 – High Speed Networks for B.E.**

**(Part-Time) Seventh Semester – Electronics and Communication Engineering, Computer Science and Engineering 2009/2010)**

**Time : Three Hours**

**Maximum : 100 Marks**

**Answer ALL questions.**

**PART – A (10 × 2 = 20 Marks)**

1. What does the term 'asynchronous' indicate in ATM networks ?
2. Name the steps involved in the transfer of data in case of WiMax networks.
3. What is meant by the term "Congestion" in networks ?
4. What are the types of queuing models ?
5. What are the features of GFR traffic ?
6. What are the mechanisms used in ATM traffic control to avoid congestion conditions ?
7. Define packet- discard.
8. Define classifier.
9. What is the need for RTCP ?
10. What is meant by a flow descriptor ?

**PART – B (5 × 16 = 80 Marks)**

11. (a) (i) Compare and contrast between Cut through forwarding and Store and forward switching techniques. (8)
- (ii) Explain in-detail about the properties of Gigabit Ethernet. (8)

**OR**

- (b) (i) Explain the process involved in establishing ATM logical connection with an illustration. (8)
- (ii) State how the fault tolerance is achieved in Wireless LANs with an example. (8)

12. (a) (i) Explain Single Server Queuing model in detail. (10)
- (ii) Discuss briefly the effects of congestion networks. (6)

**OR**

- (b) Write notes on congestion control techniques used in :
- (i) Packet Switching Networks (8)
- (ii) Frame relay Networks. (8)

13. (a) (i) Describe about the ABR traffic management.
- (ii) Explain in detail about :
- (1) KARN's algorithm.
- (2) Slow start.

**OR**

- (b) (i) Describe about the GFR Traffic management.
- (ii) Explain the performance of TOP over ATM.

14. (a) (i) Explain the integrated services architecture in detail. (8)
- (ii) Explain the Differentiated services architecture in detail. (8)

**OR**

- (b) Explain the Random Early Detection algorithm. (16)

15. (a) (i) Explain the reservation styles of the RSVP in detail. (8)
- (ii) Explain the features of MPLS. (8)

**OR**

- (b) (i) Explain the RTP protocol architecture in detail. (8)
- (ii) Explain the functions and message types of the RTP control protocol. (8)