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**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)