		Roll No
		MEDC - 203
		M.E./M.Tech., II Semester
		Examination, July 2015
		Network Design Technology
		Time: Three Hours
		Maximum Marks: 70
No	te:	i) Attempt any five questions.ii) All questions carry equal marks.
1.	a)	What is binary exponential backoff algorithm in CSMA/CD?
	b)	In token ring network reserving tokens which station has the responsibility of lowering the tokens priority? Why is priority lowered?
2.	a)	Derive the expression for throughpul of slotted ALOHA.
	b)	A large FDDI ring has 100 stations and a token rotation time of 50 m sec. The token holding time is 15 m sec. What is the maximum achievable efficiency of the ring?
3.	a)	Describe the FDDI in terms of its access method, signalling and data rate.
	b)	Why is one bit delay introduced in token ring interface?
4.	a)	How does TCP/IP decide the size of an IP fragment? Explain.
	b)	Explain the BGP protocol. 7

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5.	a)	Describe the working of Open Shortest Path Firs (OSPF) protocol.
	b)	Explain the way an IP datagram travels from a source to destination host over an ATM network.
6.	a)	Differentiate between Narrow band ISDN and Broad band ISDN.
	b)	Compare the delay in sending an X-bit message over a K-hop path in a circuit switched network and in a lightly loaded packet switched network. The circuit setup time is t-seconds, the propagation delay is d-seconds per hop the packet size is p-bits and the data rate is b-bps.
7.	a)	What are the basic ISDN services.
	b)	Differentiate between interior and exterior gateway

8. a) What is virtual path and virtual channel in ATM networks? Describe the process of call establishment.

b) Explain the basic function of ATM adaptation layer. 7
