MEDC-203

M.E./M.Tech., II Semester

Examination, May 2019

Network Design Technology

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

Differentiate between OSI and TCP/IP models.

b) Discuss Medium Access Control techniques including MAC and LLC sublayers.

A FDD1 ring has 100 stations and a token rotation time of 40 m sec. The token holding time is 15 m sec. What is the maximum achievable efficiency of the ring?

Compare between TCP and UDP protocols.

"TCP is a connection-oriented reliable protocol". Justify the statement.

Discuss various interior gateways protocols.

Explain the concept of ISDN on the following points. 7

- Principles of ISDN
- Architecture of ISDN

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	b	Circuit switched network	7
		ii) Packet switched network	
5	. a)	Discuss about ATM adaptation layer.	7
	b)	What is virtual path and virtual channel in ATM networks?	
		Describe the process of call establishment.	7
6.	a)	Describe various kind of Topologies.	7
	b)	Derive the expression for throughput of slotted A	
			7
7.	a)	What is X.25? Explain frame relay protocols.	7

"BGP is a distance vector protocol", explain this statement. How is it different from RTP?

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8. Write short notes on the following (Any four): 14

Multi Protocols Over ATM (MPOA)

MPLS

Gigabit Ethernet

Bit rate and Band rate

Gateway protocols

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