

## **COLLEGE OF ENGINEERING & TECHNOLOGY**

**Department**: Electronics & Communications Engineering

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**Course : Communication Networks** 

Course Code: EC 553

## Sheet (3)- Multiple Access

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1- How does CSMA/CD differ from CSMA/CA?
2- How is CDMA superior to FDMA? How is CDMA superior to TDMA?
3- Multiple Choice a. In the random access method, stations do not sense the medium.
□ ALOHA □ CSMA/CD □ CSMA/CA □ Ethernet
b. In the p-persistent approach, when a station finds an idle line, it
<ul> <li>□ Waits 0.1s before sending</li> <li>□ Waits 1 s before sending</li> <li>□ Waits a time equal to 1-p before sending</li> <li>□ Sends immediately</li> </ul>
c. A network using the CSMA random-access method with p equal to 0.25 will send percent of the time after accessing an idle line.
□ 25 □ 50 □ 75 □ 100
d is a random access protocol.
<ul> <li>□ MA</li> <li>□ Polling</li> <li>□ FDMA</li> <li>□ CDMA</li> </ul>

e	is a co	ontrolled access	s protocol.		
	☐ reservat☐ FDMA☐ TDMA☐ CSMA	iion			
f	is (are	e) a channelizat	ion protocol.		
	☐ FDMA ☐ TDMA ☐ CDMA ☐ All of the				
_		n access metho			
	5 9 10 11				
4- Complete Answer Yo		ow for the diffe	erent protocols	discussed in	this chapte
Characteristic	ALOHA	CSMA/CD	CSMA/CA	Token passing	
Characteristic  Multiple access	ALOHA	CSMA/CD	CSMA/CA		
	ALOHA	CSMA/CD	CSMA/CA		
Multiple access	ALOHA	CSMA/CD	CSMA/CA		Channe

5- Show the Walsh table for  $W_{16}$ .