

KING FAHD UNIVERSITY OF PETROLEUM & MINERALS DEPARTMENT OF ELECTRICAL ENGINEERING
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EE 418	Introduction to Satellite Communications	QUIZ # 5
Semester (051)	Section (01)	31 December, 2005

NAME :		
I.D. # :		Score : / 10

1. Indicate which multiple access technique has the following advantage:
 - a. Robust against noise and interference
 - b. Transponder TWT can be driven near saturation, hence maximizing the downlink C/N
 - c. Does not need network timing
 - d. Highly resistant against multipath noise, hence very suitable for Mobile Satellite Service
 - e. Offers highly secure form of communications

2. Five earth stations A, B, C, D and E are communicating through a satellite using FDMA. Show how communication channels of earth station B are received by earth station D. Use block diagrams to show the transmitter of B and the receiver of D and sketch the frequency spectrum at the important points in the system.