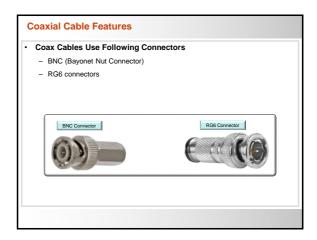
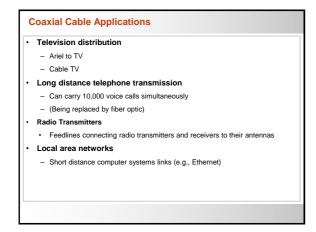
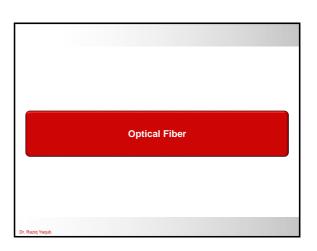
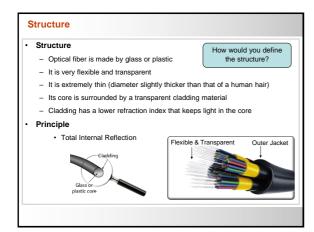


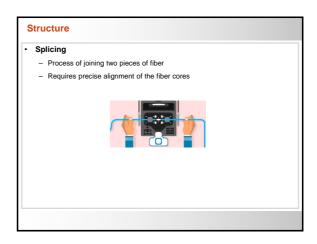
## Compared to Twisted Pair (TP) Coax Cable Provides: Higher data transmission rate Longer transmission distance Better resistance to interference and attenuation Advantage over TP Electromagnetic field carrying the signal exists only in the space between the inner and outer conductors. Thus it can be installed next to metal objects (gutters) without the power loss that occur in other copper media It also protects the signal from external electromagnetic interference Carry high-frequency electrical signals with low losses

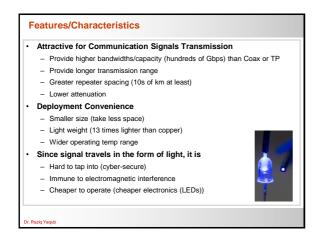


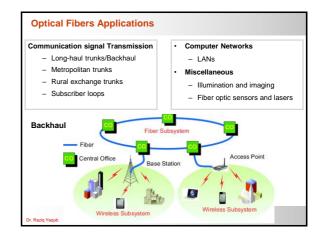


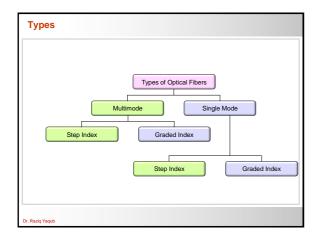


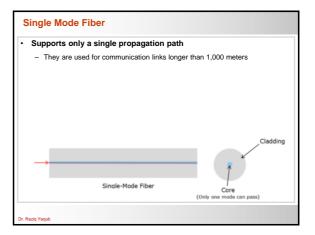


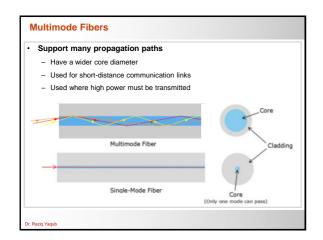


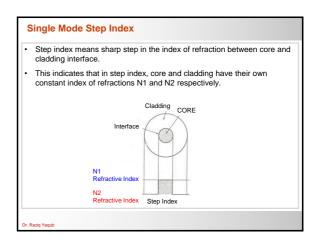


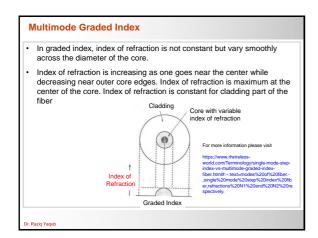


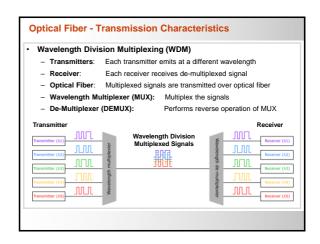






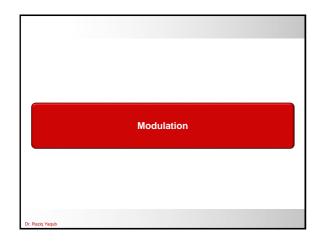


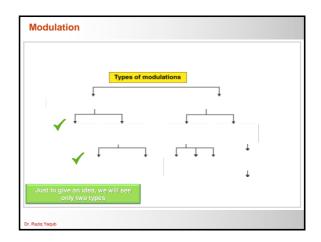


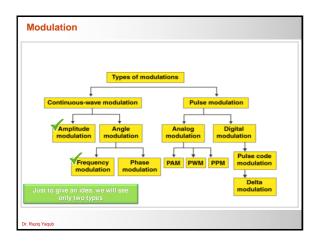


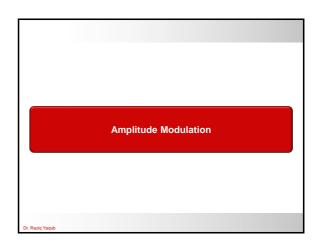
Wavelength (nm) Range (in vacuum)	Frequency range (THz)	Band label	Fiber type	Application
820 to 900	366 to 333		Multimode	LAN
1280 to 1350	234 to 222	s	Single mode	Various
1528 to 1561	196 to 192	С	Single mode	WDM
1561 to 1620	185 to 192	L	Single mode	WDM

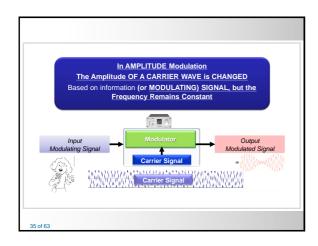
Media Type	Frequency Range	Typical Attenuation	Typical Delay	Repeater Spacing
Twisted pair (with loading)	0 to 3.5 kHz	0.2 dB/km @ 1 kHz	50 μs/km	2 km
Twisted pairs (multi-pair cables)	0 to 1 MHz	0.7 dB/km @ 1 kHz	5 μs/km	2 km
Coaxial cable	0 to 500 MHz	7 dB/km @ 10 MHz	4 μs/km	1 to 9 km
Optical fiber	186 to 370 THz	0.2 to 0.5 dB/km	5 μs/km	40 km

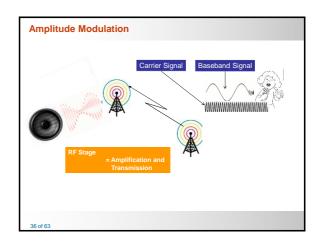


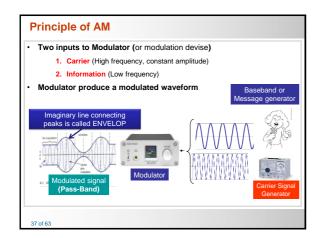


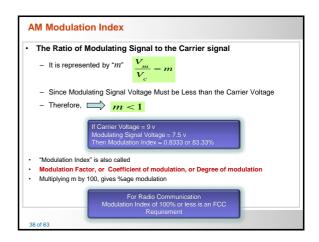


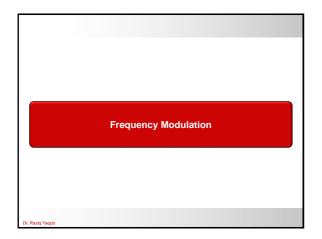


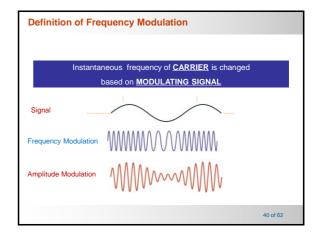


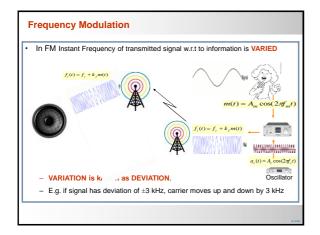


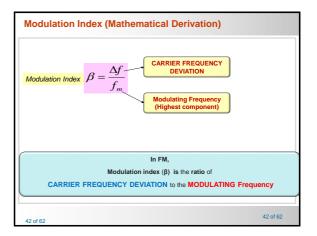


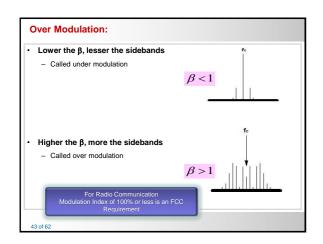




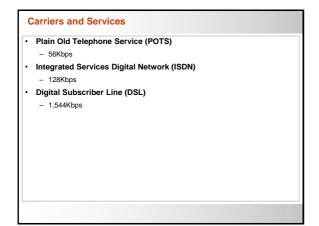


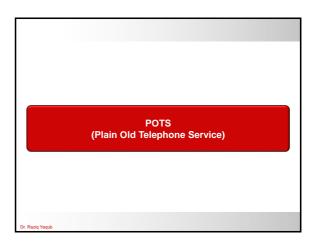


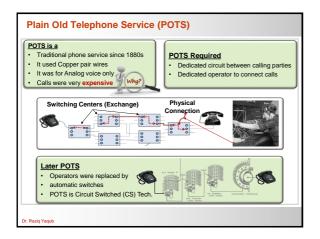


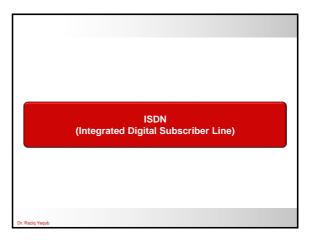


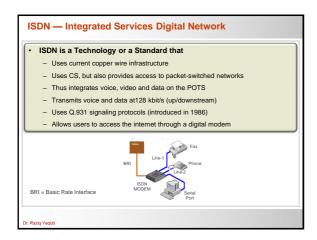


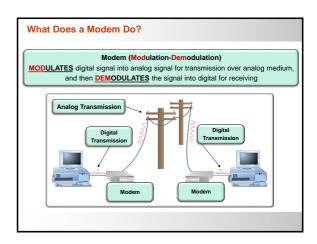


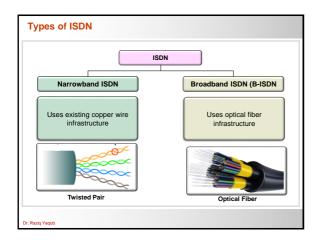


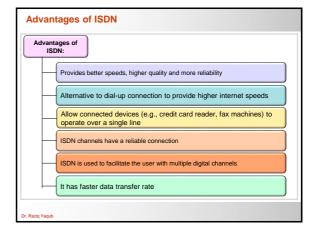


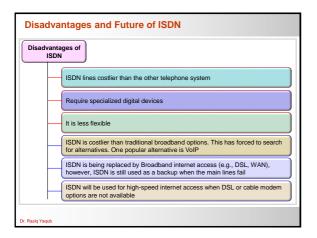


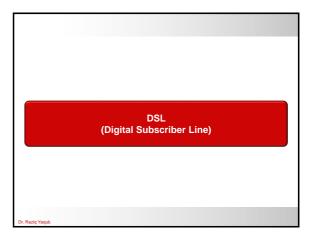


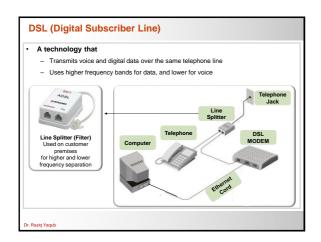


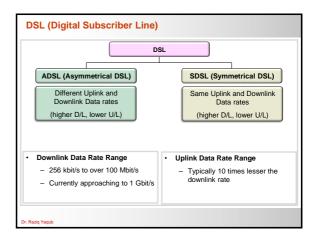


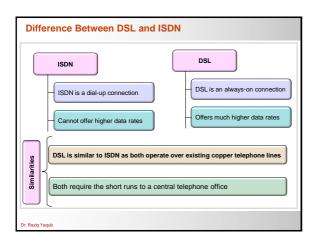




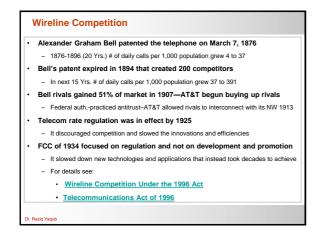


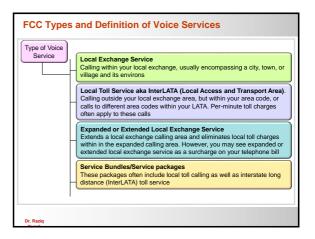


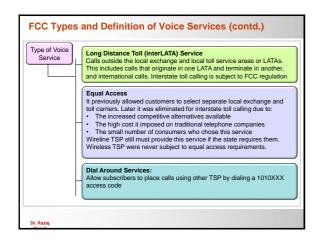


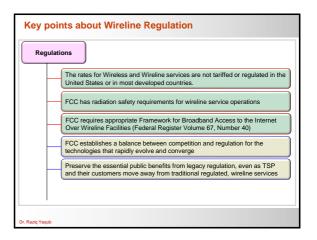




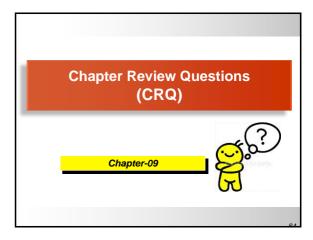












Pick the most accurate statement.

IN Frequency Modulation, Modulation Index is the:

A.Ratio of Phase Modulation and Frequency Modulation

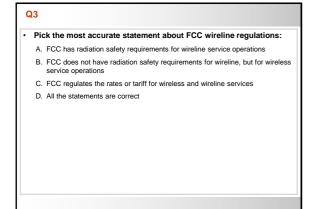
B.Ratio of Analog Modulation and Digital Modulation

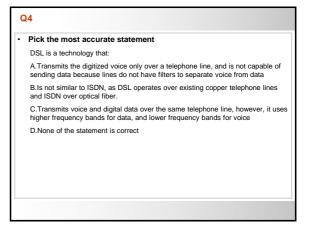
C.Ratio of the frequency deviation to the modulating frequency

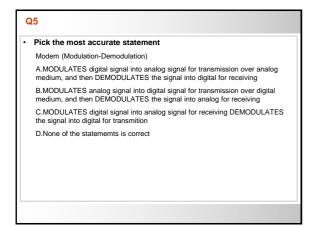
D. None of above

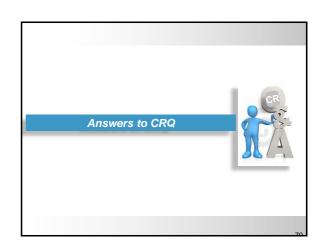
Pick the most accurate statement
In Amplitude Modulation:

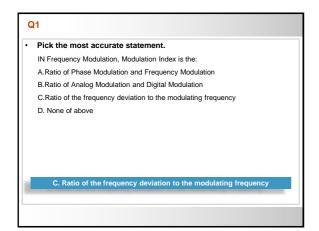
A. Message frequency is changed based on CARRIER amplitude
B. Amplitude of a CARRIER is changed
C. Amplitude of modulating, modulated and CARRIER signals all are changed
D. All of above

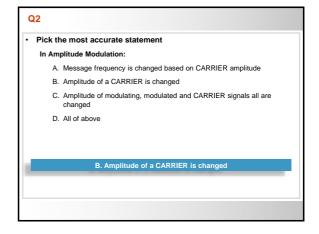












## Pick the most accurate statement about FCC wireline regulations: A. FCC has radiation safety requirements for wireline service operations B. FCC does not have radiation safety requirements for wireline, but for wireless service operations C. FCC regulates the rates or tariff for wireless and wireline services D. All the statements are correct A. FCC has radiation safety requirements for wireline service operations

