CLASSMATE

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1) Frequency

divide

Division Multiplexing: Here, we the bandwidth of a physical medium into smaller, independent frequency

channels. EDM is commonly used in radio

and television transmission.

Time Division Multiplexing: Instead of dividing the bandwidth into channels like FDM,

TDM divides time. Each connection occupies a portion of time in the link, allowing simultaneous transmission. Synchronous. and statistical TDM are two variations of this method.

for

over a

Wavelength Division Multiplexing: WDM increases the capacity of optical fibers by transmitting multiple optical signals simultaneously

single fiber, each.

with a different wavelength of light. It's divided into Bense WDM & Coarse WDM, catering to different capacity requirements.

Code - Bivision Multiplexing: COM enables multiple users to transmit data simultan coul single channel by assigning each user a unique code to modulate their signal.

This technique provides increased capacity & level of security against interception.

jamming.

over a

some level

or

Space- Division Multiplexing: SDM exploits physical seperation by using multiple antennas

M

to create paralel communication channels. This method commonly employed CLASSMATE

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Page in wireless communication system allows



m like
caneously,
MIMO technology.
for multiple
users to transmit data simultane
without interference.
STOP.
shave the same

to

2) EDM divides the bandwidth into frequeng channels, allowing multiple signals media simultaneously. but on different frequencies. TDM, on the other hand, divides the bandwidth into time slots, enabling different signals to take frequency. STOP

take turns turns using the same