

Distinguish, differentiate, compare and explain what is the difference between FDMA, TDMA and CDMA. Comparison and Differences.

## Differences between FDMA, TDMA and CDMA

S.No.	FDMA	TDMA	CDMA
1	Overall bandwidth is shared among a number of stations.	Time sharing of satellite transponder takes place.	Sharing of both bandwidth and time takes place.
2	Inter-modulation products are generated due to interference between adjacent channels. This is due to nonlinearity of transponder amplifiers.	There can be interference between the adjacent time slots due to incorrect synchronizations.	Both type of interference are present.
3	Guard bands between adjacent channels are necessary.	Guard lines between adjacent time slots are necessary.	Both guard band and guard time slot are necessary.
4	No code word is required.	No code word is required.	Code word is necessary.
5	Synchronization is not required.	Synchronization is necessary.	Synchronization is not required.