

Advanced Communication Systems

Item Text	Option Text 1	Option Text 2	Option Text 3	Option Text 4
To produce a standing wave in non-resonant antenna, the transmission line is terminated with a	Capacitor	Inductor	Diode	Resistor
In ionosphere, the D-layer ranges from	90-145 km	145-300 km	50-90 km	400 km
The shadow zones are formed in	Ground wave propagation	Sky wave propagation	Multiple sky wave	Space wave propagation
Which type of propagation is used in groundwave polarization?	Horizontal	Vertical	Both a and b	helical
In dipole arrays, the transmitter output is connected to the element is known as	Parasitic element	Director element	Driven element	round element
Which of the following is not a type of 'Horn' antenna?	Sectoral	Yagi-uda	Pyramidal	circular
Which antenna is used when circular polarization is required?	Horn antenna	Paraboloid	Discone	Helical
The output of the balanced modulator is	AF signal	RF carrier	DSBSC	FM
Which of the following is not a SSB transmitter method?	Filter method	Phase shift method	The third method	Armstrong method
The product detector is used for demodulation of a	SSB and AM signal	FM Signal	DBSC signal	PM signal
In indirect method of FM generation, the AF modulating signal is first applied to	Integrator	Phase modulator	Balanced modulator	filter
The synchronous detector is used to demodulate the	FM signal	AM signal	PM signal	PWM signal
In high level AM transmitter the adequate power level is achieved by using	Class A amplifier	Class B amplifier	Class C amplifier	Class AB amplifier

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The circuit which is used to boost the amplitude of higher frequency AF modulating signals is known as	PLL circuit	Pre-emphasis circuit	Phase discriminator	Converter
In TV transmitters, the audio signal is	Amplitude modulated	Phase modulated	Frequency modulated	Pulse amplitude modulated
In TV transmitters, the video signal is	Phase modulated	Frequency modulated	Pulse amplitude modulated	Amplitude modulated
The composite video signal does not contain	Audio signal	Video signal	Vertical blanking	Horizontal blanking
The vestigial side band filter passes	USB and some part of LSB	LSB and some part of USB	Both LSB and USB	LSB only
In colour TV transmitters, the colour information is carried through	Y signal	I & Q signal	I & Y signal	I signal
Which of the following parameter of an object is detected by RADAR?	Presence	Position	Speed	All of these
If some frequency is targeted on some object, the frequency changes for an observer if that target moves towards or away from the target is known as	Zeeman	Photoelectric	Doppler effect	Raman effect