

Assignment: Analog and Digital Communication

Total points 20/20

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✓ Voice frequency range from

2/2

☒ 20 HZ-20KHZ



☐ 2-5 MHz

☐ 0-5MHz

☐ 3-30 KHz

✓ The ultra-high frequency (UHF) range extends from

2/2

☐ 3-30 MHz

☐ 30-300 MHz

☒ 300-3000 MHz



☐ 3000-30000 MHz



✓ In commercial T.V. transmission in India, picture and speech signal are modulated respectively as 2/2

- ☐ VSB and VSB
- ☐ VSB and SSB
- ☒ AM and FM
- ☐ FM and VSB



✓ The maximum power efficiency of an AM modulator is 2/2

- ☒ 33.33%
- ☐ 50%
- ☐ 75%
- ☐ 100%



✓ The process of transmitting two or more information signals simultaneously over the same channel is called 2/2

- ☒ multiplexing
- ☐ telemetry
- ☐ detection
- ☐ modulation



✓ QAM, both identities are varied.

2/2

- ☒ Amplitude and phase
- ☐ frequency and phase
- ☐ bit rate and phase
- ☐ baud rate and phase



✓ In pulse modulation the no of samples required to ensure no loss of information is given by

2/2

- ☒ Nyquist theorem
- ☐ Parsevals theorem
- ☐ Fourier theorem



✓ Granular noise is associated with

2/2

- ☐ PCM
- ☐ DPCM
- ☒ DM



✓ Which multiplexing technique transmits analog signals

2/2

☒ FDM



☐ TDM

☐ WDM

✓ The Nyquist sampling rate for a signal band limited to 4 KHz

2/2

☐ 4 KHz

☒ 8 KHZ



☐ 2 KHz

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