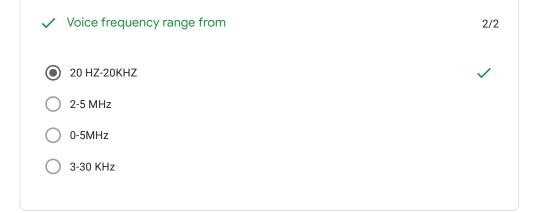
Assignment: Analog and Digital Communication

Total points 20/20

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✓ 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% | ✓ |
| O 50% | |
| O 75% | |
| O 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 | ~ |
| O Parsevals theorem | |
| Fourier theorem | |
| | |
| ✓ Granular noise is associated with | 2/2 |
| PCM | |
| ○ DPCM | |
| | ✓ |
| | |

| ✓ 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 | ✓ |
| O 2 KHz | |
| | |

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