

Marks: 15

Data Communication

Class Test: 01

1. Define modulation process. Write down the names of modulation techniques with an example. 03
2. Consider a sinusoidal AM wave, now derive its frequency spectrum equation where symbols have their usual meaning. 05
3. A carrier of 10 V peak and frequency 100 KHz is amplitude modulated by a sine wave of 4 V peak and frequency 1000 Hz. Determine the modulation index for the modulated wave and draw the amplitude spectrum. 05
4. Define PWM technique. 02

PASBFUL