

Institute of Road and Transport Technology, Erode
Department of Electronics and Communication Engineering

Class Test -1

Date:

Class/Sem : 2nd Year Information Technology, 3rd Semester

Subject : Principle of Communication Engg.

Ques.1: Modulation Index $m =$

Ans:

Ques.2: Maximum Peak Value of AM DSBFC wave ' V_m ' =

Ans:

Ques.3: Frequency spectrum is the plot between _____ Vs _____.

Ans:

Ques.4: The total power content in AM DSBFC wave is $P_T =$

Ans:

Ques.5: The total power content in Side Bands of AM wave $P_{USB} & P_{LSB} =$

Ans:

Ques.6: The number of side bands in AM DSBFC wave =

Ans:

Ques.7: The Bandwidth of AM DSBFC wave =

Ans:

Ques.8: The Bandwidth of AM DSBSC Wave =

Ans:

Ques.9: The Bandwidth of AM SSBSC Wave =

Ans:

Ques.10: Draw the power spectrum for AM DSBFC Wave when $f_m = 1$ Khz, $f_c = 10$ Khz, $P_c = 2.5$ Watts.

Ans:

Ques.11: The ratio between side band power to the total power in AM DSBFC =

Ans:

Ques.12: If carrier power $P_c = 5$ Watts and modulation index $m = 0.5$, the total power in AM DSBFC wave?

Ans:

Ques.13: Using the values given in Ques.12 find the percentage usage of power by carrier and side bands in AM DSBFC.

Ans: