BHARATI VIDYAPEETH'S COLLEGE OF ENGG. FOR WOMEN
DEPARTMENT: E & TC

UNIT TEST : I (2009-10)

CLASS: SE (SEM:II) SUB: COMMUNICATION THEORY MARKS:30

Q1] Derive the expression for AM wave [5]

Q2] Write short note on Switching Modulator [5]

Q3] Write short note on Nonlinear Modulator for DSB generation [5]

Q4] What are the advantages of DSB & SSB over DSBFC [5]

Q5] Explain Armstrong method of FM generation [5]

Q6] Explain Pre-emphasis & De-emphasis in FM [5]

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Q1] Explain Baseband & carrier communication [5]

Q2] Write short note on Switching Modulators [5]

Q3] Explain VSB [5]

Q4] Explain concept of instantaneous frequency [5]

Q5] Compare AM & FM [5]

Q6] The RMS antenna current of an AM transmitter increases by 15% over unmodulated value,when sinusoidal modulation by 1 KHz signal is applied. Determine Modulation Index [5]

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UNIT TEST : II (2009-10)

CLASS: SE (SEM:II) SUB: COMMUNICATION THEORY MARKS:25

Q1] Explain FM detector using PLL [8]

Q2] Draw & explain Fostor Sealy discriminator [6]

Q3] Write note on Super-heterodyne receiver [6]

Q4] In radio receiver RF amplifier & mixer are connected in cascade.Amplifier has noise figure of 10 db gain of 50 db noise figure of mixer stage is 20 db Calculate overall noise figure. [5]

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UNIT TEST : I I (2010-11)

CLASS: SE (SEM:II) SUB: COMMUNICATION THEORY MARKS:30

Q1] Explain AGC in detail [5]

Q2] Explain following terms
a. sensitivity b. selectivity
c. fidelity d. Image frequency e. Double spotting [10]

Q3] Explain noise figure , noise temperature, noise bandwidth [5]

Q4] Derive Friss formula for noise factor of amplifier in cascade [5]

Q5] Explain the performance of DSBSC in presence of noise [5]