	Muzaffarpur Institute of Te (Under the Department of Science Department of Electro B.Tech 5 th Semester	echnology (MIT), Muzaffarpur se & Technology Govt. of Bihar, Patna) onics and Communication r Weekly Exam - 2, 2018	
	INTRODUCTION TO COMMUNICATION SYSTEM		
SET: 1	TIME: 20 min	FULL MARKS: $2 + 2 + 2 + 4 = 10$	
NAME:		ROLL NO	

(1) An unmodulated AM transmitted power is given by 1000 watts. Find AM transmitted power with 100% of modulation?

(2) For an AM, total sideband power is 100W with μ = 0.5. Find carrier power?

(3) The peak amplitudes of AM signals are varying between 2V and 10V. Find μ ?

(4) An AM signal is given by s(t) = 4 cos (3200x pi x t) + 10 cos (4 x pi x 10^3 t) + 4 cos (4800x pi x t) Find all the possible parameters of AM

	Muzaffarpur Institute of Technology (MIT), Muzaffarpur (Under the Department of Science & Technology Govt. of Bihar, Patna) Department of Electronics and Communication		
	INTRODUCTION TO COMMUNICATION SYSTEM		
SET: 2	TIME: 20 min	FULL MARKS: $2 + 2 + 2 + 4 = 10$	
NAME:		ROLL NO	

(1) An unmodulated AM transmitted power is given by 100 watts. Find AM transmitted power with 10% of modulation?

(2) For an AM, total sideband power is 100W with μ = 0.5. Find total power?

(3) The peak amplitudes of AM signals are varying between 2V and 10V. Find total power?

(4) An AM signal is given by $s(t) = 14 \cos (5200x \text{ pi } x t) + 20 \cos (6 x \text{ pi } x 10^3 t) + 14 \cos (6800x \text{ pi } x t)$ Find all the possible parameters of AM

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*	INTRODUCTION TO COMMUNICATION SYSTEM		
SET: 3	TIME: 20 min	FULL MARKS: $2 + 2 + 2 + 4 = 10$	
NAME:		ROLL NO	

(1) An unmodulated AM transmitted power is given by 500 watts. Find AM transmitted power with 50% of modulation?

(2) For an AM, total sideband power is 100W with μ = 0.5. Find sideband power?

(3) The peak amplitudes of AM signals are varying between 2V and 10V. Find $\eta?$

(4) An AM signal is given by $s(t) = 2 \cos (3000x \text{ pi } x t) + 5 \cos (4 x \text{ pi } x 10^3 t) + 2 \cos (5000x \text{ pi } x t)$ Find all the possible parameters of AM