Wireless Communications

Problem 1



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*	M202161031 Usman Saif H.W 01
	Madulation process mosts model
	a passband -> baseband
	20052 rfet > [Lowpus filter] > Uct)
7	Upto -2 sin 2 x fet -> [Lowpens Filter] > Us(b)
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2	Uct - (x)- cos2rfet
	D → Upt
<u>-</u>	Ust Sinzofet
	For Down convert from pubbend to base band
	Duch (-elo-fl)
	24th (os (2rfet) = 2 unt costanfet - 2us sin 2rfet
	= Uc(t) + Uct) cos unfet - uct sinunfet.
3	· Base band -> pass Band
	Uc/t) -> COCDEP L -
2	- Upits
	Usity > -sin2ufet
1	

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- Up(t)
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