OE

7/12/15

			QP Code: 1740						
	(3 Hours)				[Total Marks: 100				
N.B. :	(1) Question (2) Attempt (3) Assume s	any thre	e questi	ons from	remaii	ning que	estion.		2.000
1. (a) (b) (c) (d)	Derive expression for entropy. Explain need for modulation for long transmission.							AND OF	20
2. (a) (b)	waveform.			nsmitter	and rece	eiver wi	th the h	elp of ne	eat 10
3. (a) (b)	Write short no Compute the las High as po	Huffman	code fo	or this so	urce mo	ving the	combin	ied symb	10 ol 10
	Symbol	S0	S1	S2	S3	S4	S5	S6]
	Probability	0.25	0.25	0.125	0.125	0.125	0.0625	0.0625	
4. (a) (b) 5. (a)	Explain Phase Discriminator. Explain balanced slope detector.								10 10
(b)	$m(t) = (\cos 200)$ Also calculate Draw and expl	the tota	.5 cos 40 1 power,)00 πt) ar , sideban	nd carries d power	r is c(t) =	= 1.5 cos	$(1000 \pi t)$	is 10). 10
5. Wri	te short notes of (1) Image fr (2) Quantiza	equency	and its	rejection	1.				10 10
	What is the me any one metho Explain and pr	u .,					d, explai	n in brie	f 10
	pr	ove brot	berties o	rourie	transfo	rm.			10