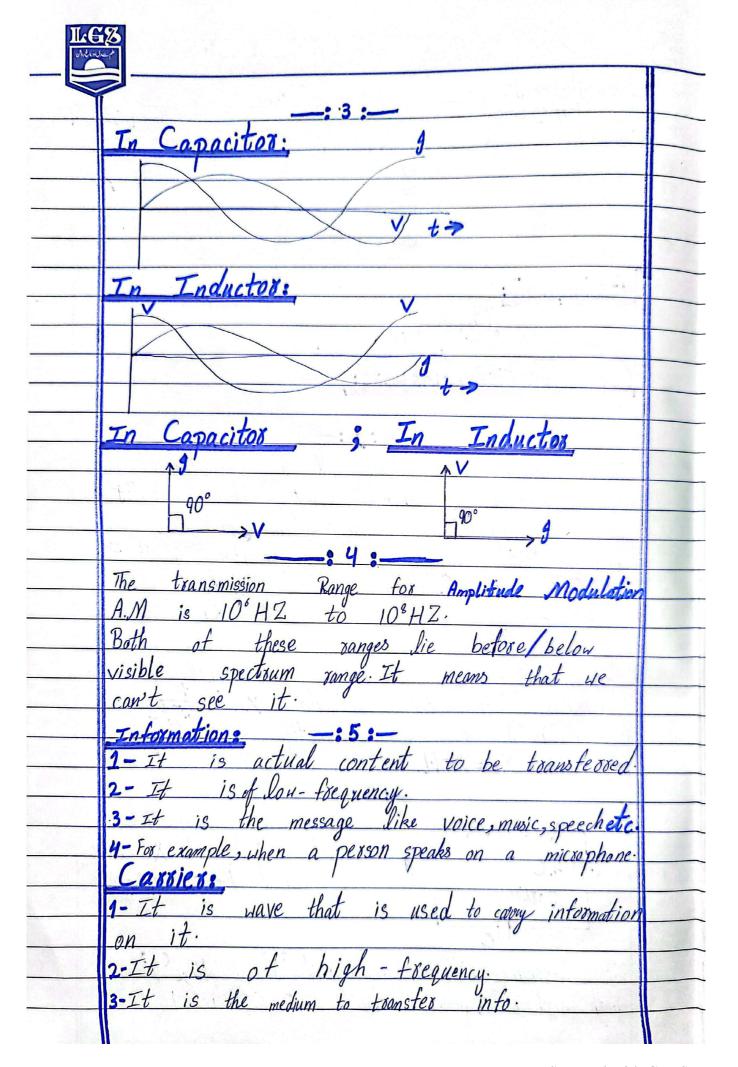


LGS GROUP OF COLLEGES

		A PROJECT	r of Lai	HORE GRAI	MMAR	SCH	OOL		
Name: Za	me: Zain-ul-Abidin				Class: 2 nd Year. Rol			oll No	
Subject:		YSICS.		Test No.	and the second		Date: 2	0-11-2024-	
4 8 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	4 B 0 0 0 0 0 0 0 0 0 0	000000	ABO		and the same of	3 6 0 0000 0000 0000	Marks Obtained	
A	ssign	nent:	ısics.		1.5				
	9=	uestion/	1	iers:					
	. 3.5	Taducte	No.	-: 1 :-	-	·		- Control	
So	cause decays	As, in $f \propto \frac{1}{Xc}$ $C = f = is$	dependent C	to a cy: is: inversely form	rila PX	o pos	apacitos f ind of A te in X tional proport	to Xc	
to	X	$ \begin{array}{ccc} \text{in } & f \\ \hline & (X_L = 2) \end{array} $	πfL	div	ectly	-	proport	ional	
At	S	cource sonance for phase. So, p	Sequency.					RLC $X_{L}=X_{C}$ $ance$	
bot	h in-	phase So, p	ower f	actos (050=	00) is 1	1.	



- C		20. 55	
Stuc	ent	Name:	

	5- Fox example a cinucital	
	info -when with a frequency in the radio-wave	
	OF micro-wave ronge.	
10 AV	have plonge.	
	A choke coil is basically a coil of thick	
	COPPEX Hise wound closely in loxage no	
	copper vive wound closely in large no of turns on a soft iron laminated core. It has small resistance and	
	COXE. It has small resistance and	
	high inductance. So, very less power is	
	dissipiated in it.	
	It is used in A.C. ciocuit to	
,	limit value of current with very	
	small wastage of power as compared	
	to sheostat or resistance.	
	-: 7:	
	Inductance = = = 20 × 10-3H	
	resistance = R = 10 1	
	voltage = V = 240 V	
	Voltage = V = 240 V Frequency = f = 180 Hz As, Pover P = Ixms Vxms cos O.	
	As, Power P= Ixms Vxms cas Q.	
	So, to find Trms, firstly; 2= Voms/Ioms	
	Z= Voms/Ioms (X)	
	: Zams = Vams/z XL	
	So, To find X_L , $Z = \sqrt{R}^2 + (X_L)^2$ $X_L = WL$	
	So, $X_{L} = 2\pi f L$ $Z = \sqrt{100 + 51.84}$ $X_{L} = 2\pi \left(\frac{180}{\pi}\right) (20 \times 10^{-3})$	
	$2 = 12.32 \Omega$ $\lambda_{L} = 2\pi (\frac{1}{2\pi})(2\pi)(2\pi)$	
May 15 15	To find Ixms, XL=7.2 1	
	Ioms = Voms/7	
	Irms = 240/12.32	
	101113 1/1/12	

