B.Sc. Part-I Semester-I Examination ELECTRONICS

(Basic Electronics)

Tim	e : T	hree	Hours]		[Maximum Ma	rks : 80
N.B.	:	(1)	Question No. 1 is compulsory.			
		(2)	Draw neat diagram wherever necessary.			
1.	(A)	Fill	in the blanks:			
		(i)	KVL stands for			
		(ii)	The unit of resistance is			
		(iii)	SCR stands for			
		(iv)	VLSI stands for			2
	(B)	Cho	ose the correct answer:			
		(i)	The unit of inductance is			
			(a) ohm	(b)	mho	
			(c) Henry	(d)	Farad	
		(ii)	CRT stands for			
			(a) Current reactance tube	` `	Cathode ray tube	
			(c) Cathode ray transistor	(d)	None of these	
		(iii)	PIV indicates			
			(a) Peak inverse voltage		Positive inverse voltage	
			(c) Peak integrated value	(d)	None of these	
		(iv)	IC stands for			
			(a) Integrated circuit	` ,	Ionisation current	
			(c) Inverse current	(d)	None of these	2
	(C)		wer in one sentence :			
		(i)	What is inductor?			
		, ,	What is CRT?			
		, ,	Define Rectification.			
		. ,	What is MOSFET ?			4
_		HEI				_
2.	, ,	-	lain wire wound and carbon composition	n resis	tors.	6
		Exp	lain KVL and KCL.			6
	OR					
	(P)	Exp	lain the working of transformer.		,	4
	(Q)	Stat	e and prove Thevenin's theorem.			8
	EIT	HEI	R			
3.	(A)	Exp	lain multirange voltmeter.			6
	(B)	Exp	lain multirange ammeter.			6
WPZ	.—-82·	49	. 1			(Contd.)

(P) Explain scale of integration in IC's.

(Q) Explain fabrication of Diode and transistor in monolithic IC.

4

8

525