9.	(a) What is ALOHA? Explain CSMA protocol in detail.					NTK/KW/15/7548		
	(b) Explain L	AN in detail.	7	Faculty of Engineering & Technology Seventh Semester B.E. (Electrical Engg.) (C.B.S.) Examination				
		OR		ELECTIVE-I: I.T. & ITS APPLICATION IN POWER SYSTEM CONTROL				
10.	(a) Explain T	CCP/IP model.	7		10 ((ER 5151E			
	(b) Explain (	CSMA/CD protocol.	6	Time—Thre	ee Hours]	[Maximum Marks—80		
1.1	г 1: :	1.2	,	I	NSTRUCTIONS TO	O CANDIDATES		
11.	Explain various	s data acquisition systems in	14	(1)	All questions carry	marks as indicated.		
		OR		(2)	Solve Question No	. 1 OR Questions No. 2.		
12.	Design microprocessor based instrument system in power			(3)	Solve Question No	. 3 OR Questions No. 4.		
	system.		14	(4)	Solve Question No	. 5 OR Questions No. 6.		
				(5)	Solve Question No	. 7 OR Questions No. 8.		
				(6)	Solve Question No	o. 9 OR Questions No. 10.		
				(7)	Solve Question No	. 11 OR Questions No. 12.		
				(8)	Assume suitable da	ata wherever necessary.		
MVN	<b>1—4</b> 7642	4	2050	MVM—47642	. 1	Contd.		

1.

2.

3.

	(9)	Illustrate your answers wherever necessary the help of neat sketches.	with	4.	(a)	What is the need of Energy Conservation and Management?
	(10	Use of non-programmable calculator is perm	itted.		(b)	Explain terms, Return on Investment and Payback Period related to Energy Conservation.
1.	(a)	How Data Acquisition and Supervisory Control	helps			
	` ,	in Power System ?	6	5.	(a)	Explain objective of Energy Management for Energy Conservation. 6
	(b)	What are the real time issues on signal transmi and control ?	ssion 7		(b)	Explain Energy Conservation and Management in Unix Software. 7
		OR				OR OR
2.	(a)	What are the different Intelligence System for monit	oring			
2.	(u)	of Power System ?	7	6.		w software plays important role in Energy Management tem?
	(b)	How power flow can be controlled in Real ? Process ?	Γime 6	7.	(a)	Explain data communication using RS 232 based system.
3.	(a)	Explain the concept of Energy Auditing in mo	odern 7		(b)	Explain distributed measurement system in detail.
	(b)	Write in detail, 1ux meter and thermocouple be temperature indicator in case of Energy Audi				OR
			7	8.	Exp	olain IEEE-488 protocol in detail. 13
		OR				
MV	M—47	642 2 C	ontd.	MV	M—47	7642 3 Contd.