		BT-7/M-20	37196		
Ţ	JTIL	LIZATION OF ELECTRICAL EN	NERGY		
		EE-401N			
		Opt. II			
Tin	ne : Tl	Three Hours] [Maximum	Marks: 75		
No		Attempt <i>Five</i> questions in all, selecting a question from each Unit.	nt least one		
Unit I					
1.	(a)	Define illumination and describe illumination.	Laws of		
	(b)	Explain various methods adopted for calculation.	lightening 7		
2.	Exp	plain in detail the constructional features a	nd working		
	of s	sodium vapor lamp with suitable diagram	. 15		
Unit II					
3.	Writ	te short notes on the following:			
	(a)	Advantage of electric heating	5		
	(b)	c c	5		
	(c)	Equivalent circuit of Arc Furnace.	5		
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Total Pages: 02

4.	(a)	Compare between AC and DC welding. 1	0			
	(b)	Explain advantage of coated electrodes.	5			
		Unit III				
5.	Expl	ain in brief the working and concept behind	d			
	refrigerator with suitable diagram.					
6.	(a)	What is Electroplating ? Give basic principle behind	d			
		electroplating and various terms used.	8			
	(b)	Explain in brief various compression cycles.	7			
		Unit IV				
7.	Write	e short notes on the following:				
	(a)	Starting of electric train	5			
	(b)	Speed control of electric train	5			
	(c)	Braking of electric train.	5			
8.	(a)	Compare and contrast amongst AC and DC traction	n			
		system.	8			
	(b)	Draw and explain block diagram of electric traction	n			
		system.	7			