CD	Dall	No
3.B.	ROII	INO

UTILIZATION OF ELECTRICAL ENERGY 6th/Elect/EEE/5224/2652/6921/May'16

	0 /Elect/EEE/5224/2052/0921/N	ay 10	
Duration	: 3 Hrs	·	M. Marks=75
	SECTION A		
Q1 F	ill in the blanks with suitable word:		10x1.5=15
I.	Light wave travel with a velocity of		
II.	Candela is a unit of		
III.	The electrodes used in arc furnace are of		
IV.	Thermal conductivity is measured in		
V.	TIG welding iswelding.		
VI.	Butt welding is used for welding		
VII.	The transformer used in a welding set is	transformer.	
VIII.	In electrolytic process the electrical energy is converted:	into	_
IX.	The sizes of the room air conditioner is given in		
X.	The starting torque of a dc series motor is		
	SECTION B		
Q.2. <i>A</i>		5x6=30	
a.	Write short note on 1. CFL 2. LED		
b	Explain Dielectric heating.		
c.	Explain Resistance welding and its application.		
d.	Describe with neat diagram electrolytic process.		

SECTION C

Q.3. Attempt any THREE questions:

3x10=30

- I. Name different method of electric heating and explain ajax wyatt core furnace with neat diagram
- II. (A)Justify your answer with reasons which motor is selected for the following drives?

e. Discuss the various advantages of electric drive over mechanical derive.

f. Why are D.C. series motors preferred for use on electric traction?g. Discuss the electric circuit of domestic refrigerator with neat diagram.

- (i) Paper mill (ii) Lifts (iii) Electric traction (iv) Mine
- **(B)** What do you mean by drive? Discuss various types of electric drives.
- III. Explain the working of various parts of vapor compression refrigeration system
- **IV.** Discuss the concept of plugging and regenerative braking. Describe the criteria for selection of motor for particular work