## PARUL UNIVERSITY FACULTY OF ENGINEERING & TECHNOLOGY B.Tech. Winter 2019 – 20 Examination

B.Tech. Winter 2019 – 20 Examination		
Semester: 5 Subject Code: 03106347 Subject Name: Application of Electrical Energy	Date: 12/12/2019 Time: 10:30 am to Total Marks: 60	o 01:00pm
Instructions:		
1. All questions are compulsory.		
2. Figures to the right indicate full marks.		
3. Make suitable assumptions wherever necessary.		
4. Start new question on new page.		
Q.1 Objective Type Questions (Each of one mark)		(15)
1. Tariff is applied for which kind of consumers?		
(a) Big consumers	(b) Small consumers	
(c) Residential consumers	(d) All of these	
2. Voltage required for butt welding is		
(a) 2 to 8 V	(b) 2 to 6 V	
(c)6 to 10 V	(d) 6 to 12 V	
3has the highest value of thermal conductivity?		
(a)Aluminum	(b) brass	
(c)Copper	(d)Steel	
4. The example of plastic welding is	、 <i>/</i>	
(a) Gas welding	(b)Arc Welding	
(c)Resistance Welding	(d) None of the Above	
5is not an application of diel		
6. Diversity factor is always1.		
7. In Induction Heating,is of high value?		
8furnaces are used for heat treatment of casting.		
9. The power factor will be leading in case ofheating.		
	neating.	
10.Full form of LED is	a not demandant on the frequency of supply?	
<b>č</b>		
(a)Induction Heating (c)Electric Heating	(b) Dielectric Heating	
12. The most modern method for food processing is		
13Factor is defined as the ratio of the illumination when everything is		
clean to illumination under normal working conditions.		
14.Candela is the unit ofquan	tity	
15.Unit of luminous flux is		
Q.2 Answer the following questions. (Attempt any t		(15)
A) What do you mean by Tariff? Give the types of Tariff.		
B) Explain Terms (a) Luminous Intensity (b) Lumen		
C) Explain Induction Heating.		
D) Define (a) Load Factor (b) Diversity Facto	r	
Q.3 A) Explain Spot Welding with Suitable Diagram		(07)
B) Give the Comparison between AC and DC Welding with Suitable Example.		(08)
-	OR	
		(08)
<b>Q.4</b> A) Explain Compact Fluorescent lamp.		(07)
	OR	(07)
A) Explain Salt bath furnace with Suitable diagram		(07)
B) Explain Indirect Resistance Heating with Suita		(07)
b) Explain inducer reasoning with Suitable Diagram. (00)		