

Q.5

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## GUJARAT TECHNOLOGICAL UNIVERSITY RF\_SEMESTER\_VI(NEW)\_EXAMINATION\_SUMMER 2010

·		Code • 2162407	Date:14/05/2019	
Subject Name: Electrical Power Utilization & Traction				
	Time:10:30 AM TO 01:00 PM Instructions:  Total Marks: 7			
IIISTI	1.	Attempt all questions.		
	2.	- , -		
	3.	Figures to the right indicate full marks.		
Q.1	(a)	Classify electric drives.	03	
<b>V.1</b>	(b)	•	04	
	(c)	Write a brief note on Selection of drive for applications of Textile mill,	07	
	(-)	paper mill, steel mill, printing press, crane, lift.		
<b>Q.2</b>	(a)		03	
	<b>(b)</b>	Write a short note on visibility spectrum curve of relative sensitivity of	04	
	( )	human eye.	^=	
	(c)	Explain construction and working of incandescent lamps their	07	
		characteristics.		
	(a)	OR  Evaluin construction and weating of discharge lemms and their	07	
	(c)	Explain construction and working of discharge lamps and their characteristics.	07	
<b>Q.3</b>	(a)	State advantages of electrical heating.	03	
	<b>(b)</b>	<u> </u>	04	
	<b>(c)</b>	Discuss dielectric heating and its applications,	07	
		OR		
Q.3	(a)	State advantages of electric welding.	03	
	<b>(b)</b>	Give comparison between AC and DC arc welding.	04	
0.4	(c)	Explain in detail projection seam and butt, welding.	07	
<b>Q.4</b>	(a)	Explain principle of arc production.	03	
	(b)	1 1 2 1 1	04 07	
	(c)	Explain process of electroplating.  OR	U/	
Q.4	(a)	Define: Illumination & Luminous flux.	03	
Ų.4	(a) (b)	Discuss the role of Air Conditioning in our day to day life.	03	
	(c)	Explain process of electro-deposition - clearing	07	
	(0)	Explain process of viceur deposition - clearing	U/	
Q.5	(a)	Describe working of AC series motors.	03	
•	<b>(b)</b>	Description of Electrical circuit used in refrigerator.	04	
	(c)	Discuss various types of motors used in traction.	07	

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(a) Write a short note on third rail system of current collection.

(c) Explain clearly speed time curves for different services.

**(b)** Write a short note on : Metro railways

07

03

**04** 

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