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LDRP INSTITUTE OF TECHNOLOGY & RESEARCH, GANDHINAGAR
B.E. SEMESTER -VI

MID SEMESTER EXAM

Day: Monday
Date: 2/03/2015
Duration: 12:30 to 1:30
Instructions:

Branch: Electrical
Subject Name: High Voltage Engineering
Max. Marks: 30

1) All questions are compulsory.
2) Figures to the right indicate full marks.
3) Indicate clearly, the options you attempt along with its respective question number
4) Take necessary assumptions where it is required.

Q1(a)	Explain Charge simulation method for electric field computation.	05
Q1(b)	Define Townsend's ionization coefficients for Primary and Secondary ionization. Derive Townsend's current growth equation for Primary ionization and criterion for breakdown.	05
Q2.	Write short note on following:	05
	(a) Cascade transformer	05
	(b) Half wave rectifier	

OR

Q2 (a)	Explain multi-stage Impulse Generator or Marx circuits.	05
Q2(b)	Write a short note on Van de Graff generators.	05
Q3(a)	Write a short note on Paschen's law.	05
Q3(b)	State and explain properties of transformer oil as Liquid dielectrics.	05

OR

Q3(a)	Explain in detail conduction and breakdown in pure Liquids.	05
Q3(b)	Explain Tripping and control of Impulse Generators.	05

**********ALL THE BEST**********