Total No. of Questions : 8 ] [Total No. of Printed Pages : 2 rgpvonline.com RGPVONLINE.COM Roll No.				[2]
			(b)	State various processes which lead to formation of bubbles in liquid dielectrics and explain clearly cavity breakdown mechanism in liquid dielectrics.
	EX-7101	4.	(a)	What is the standard impulse wave as per I.S. recommendation? Give the tolerances recommended.
	B. E. (Seventh Somester)			8
	EXAMINATION, Dec., 2011	(b) Exp		generator circuit. Give the procedure and describe the
	(Electrical & Electronics Engg. Branch)			
	HIGH VOLTAGE FNGINEERING	_		equipments.
	(Elective - 1)	5.	(a)	lain the following: 20
	(EX = 7101) Time: Three Hours			Cockroft Walton voltage multiplier circuit
			(b)	Series resonant circuit and its advantages
Maximum Marks : 100			(c)	Impulse current generator
	Minimum Pass Marks : 38	6.	(a)	of very high impulse voltages? Explain how these can be taken care of during measurements.
Note:	Attempt any five questions. All questions carry equal- marks.		(b)	
i (a)	Discuss the advantages and limitations of high voltage transmission over low voltage transmission.			of an electrostatic voltmeter. Discuss its advantages and limitations for high voltage measurements. 12
	Give important applications of high voltages.	7.	(a)	Describe various tests to be carried out on circuit breakers.
i, i	When job the various systems of power transmission?	(	(b)	Explain the procedure for testing string insulator. 10
2. (8)	What are the limitations of Iownsend's theory when adopted to explain formation of discharge at high pressures?	(	(a)	e short notes on any three of the following: 20 Cavity breakdown Tesla coil
1 <sup>1</sup> / <sub>2</sub> \$ }	Experin sharply and weakly non-uniform fields and the effect of polarity on breakdown voltage in each case.  10	(	(d)	Generating voltmeter Surge current measurement Testing of bushings
5 (0.4)	Discuss the methods of minimizing corona power loss on transmission lines.			6290

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