

6E607	Roll No.:	
	3 Hours] [Maximum Ma [Min. Passing Ma	arks : 80 arks : 26
Ouestic	mpt any five questions, selecting one question from each unitions carry equal marks. Schematic diagrams must be shown warry. Any data you feel missing suitably be assumed and stated. Units of quantities used / calculated must be stated clearly.	11010111
	following supporting material is permitted during examination ned in form No. 205)	
1.	2	1000
	UNIT - I	
1/ (a)	Discuss townsend's breakdown mechanism with suitable diagra	am.
		10
· TR)	Discuss the application of gases in power system.	
	OR	6
1 (a)	AND	reakdown
(b)	List out the application of oil in power apparatus.	10
		6
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UNIT - II

2	Dit dia	fferentiate between high DC and AC voltage generation with proper of gram.	ircuit
			16
2	(a)	Explain the construction learner	
	(Explain the construction and operation of sphere gap.	8
	(p)	Briefly discuss the working of Mark's multistage impulse generate	or.
			8
		UNIT - III	
3/	(a)	How will you measure capacitance and dielectric loss using voltage schering bridge ?	high
	(6)	Dofine Non-destant I I I	10
	act	Define Nerodestructive Insulation tests.	6
		OR	
3	(a)	Define partial discharge and draw its equivalent circuit.	
	(b)	Explain the working of widehand and name hand DD dated	6
	(0)	Explain the working of wideband and narrow band PD detection circu	10
		UNIT - IV	
<i>A</i>	(a)	What are the causes of over voltages ? explain.	
	7		8
	(p)	Explain the phenomena of attenuation of travelling waves.	
		OR	8
4	Write	e short note on :	
9	1	Open end line and short circluited line.	7
V	(b)	Reflection and Refraction at a T junction.	
		8×2:	=16
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UNIT - V

Discuss the insulation coordination in detail. Also define volt-time curves and basic impulse insulation levels.

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OR

- 5 Discuss the construction and operation of ground wires and explain the following parameters:
 - (a) Protection angle
 - (b) Protection zone
 - (c) Counterpoise
 - (d) Surge absorber

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