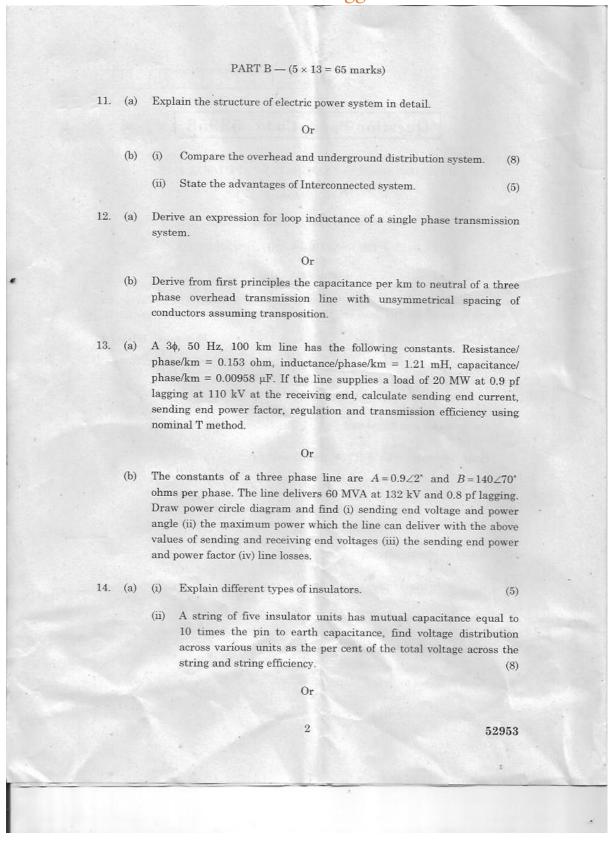
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	Reg. No	0.:
	Question Pap	per Code : 52953
	B.E./B.Tech. DEGREE EX	AMINATION, APRIL/MAY 2019.
	Four	th Semester
	Electrical and F	Electronics Engineering
	EE 6402 — TRANSMI	SSION AND DISTRIBUTION
	(Regu	dations 2013)
		sion and Distribution for B.E. (Part-Time) for electronics Engineering — Regulations 2014)
Tin	ne : Three hours	Maximum : 100 marks
	Answer	ALL questions.
	PART A —	$(10 \times 2 = 20 \text{ marks})$
1.	Define feeder and distributor.	
2.	State the applications of HVDC t	ransmission.
3.	Define transposition of lines.	
4.	What is corona?	
5.	What is Ferranti effect?	
6.	Write down the significance of Sl	IL on transmission line.
7.	What is the purpose of insulator	?
8.	What is the main purpose of arm	nouring in cables?
9.	What is meant by tower spotting	2
10.	What is meant by sag template?	

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	(b)	A 2 km long 3 core, 3 ϕ cable has capacitance 0.5 $\mu F/km$ between two conductors bunched with sheath and the third conductor. The capacitance between the conductors is also measured when bunched together and the sheath and found to be 0.75 $\mu F/km$. Determine	
		(i) Capacitance between phases	
		(ii) Capacitance between the conductor and the sheath	
		(iii) Effective per phase capacitance	
		(iv) Capacitance between two conductors connecting a third conductor to the sheath	
		(v) Charging current if the supply voltage is 11 kV, 50 Hz.	
15.	(a)	Write short notes on:	
		(i) Sub mains (4)	
		(ii) Stepped and tapered mains (5)	
		(iii) Grounding grids. (4)	
		Or	
	(b)	Explain the following:	
		(i) Neutral grounding (7)	
		(ii) Resistance grounding. (6)	
		PART C — (1 × 15 = 15 marks)	
		11111 0 — (1 × 13 – 13 marks)	
16.	(a)	A 400 V, 3 phase 4 wire service mains supplies a star connected load. The resistance of each line is 0.1 ohm and that of the neutral 0.2 ohm. The load impedances are $Z_R = (6+j9)$, $Z_y = 8$ ohms and $Z_B = (6-j8)$.	
		Calculate the voltage across each load impedance and current in the neutral. Phase sequence RYB.	
		Or	
	(b)	Explain your understanding about transmission of power and distribution of power.	
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