## SSLC, HSE, DIPLOMA, B.E/B.TECH, M.E/M.TECH, MBA, MCA

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	Reg. No. :	
G	uestion Paper Code :	91488
EE (Common to PTE)	EGREE EXAMINATIONS, NOVEN Fourth Semester Electrical and Electronics Engin 6402 – TRANSMISSION AND DIS (Regulations 2013) E 6402 – Transmission and Distribu – Electrical and Electronics Engine	neering TRIBUTION ution for B.E. (Part-Time) –
Time: Three Hours		Maximum: 100 Mark
	Answer ALL questions	
	PART – A	(10×2=20 Marks
1. List out the adv	antages of high voltage AC transmissi	ion.
2. Mention the der	merits of HVDC transmission.	
3. What is skin eff	ect?	
4. What is proximi	ity effect?	
5. Define transmis	ssion efficiency.	
6. Define corona.		
7. What is the nec grading cables?	essity of grading an underground cable	e and write the methods of
8. List the four ma	ain insulating materials used in cables	<b>3.</b> (30)
9. What is meant l	by Sag?	
10. What are the m	ajor equipments of a substation?	
	PART – B	(5×13=65 Marks
	ution calculations, calculate the power nd power factors referred to respective (OR)	
	ge drop on a DC distributor having conc ed to both ends with i) equal voltages i	
	Selling 2 Physics Inches	

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12. a) Find the induct	ance of single phase two wire line	and unsymmetrical spacing
	(OR)	
b) Derive the capac unsymmetrical	citance of a 3-phase overhead line i spacing.	for symmetrical spacing and
	end current using end condenser method for medium transmission l	
	(OR)	
b) Derive the send necessary diagra	ling end current and voltage for a am.	long transmission line with
14. a) What is grading i) Capacitance	of cables? Explain the following r	methods of grading of cables :
ii) Intersheath	The second of the second of the	(2+6+
	(OR)	TYTO SERVICE HE HEALT
b) Derive the equat to improve strin	tion for string efficiency 3-disc stri	ng and explain the methods
15. a) Calculate sag ar	nd tension of a conductor when	
i) supports are	i) supports are at equal levels.	
ii) supports are	e at unequal levels.	beza involvemen mitaranev (
Analyze wit	h, without the effect of ice loading	and wind.
	(OR)	
b) i) Explain the A	IS and GIS Substation Layout.	The second secon
ii) Tabulate the t	types of tower S/C and D/C for 132	Kv lines with their typical
uses.		(6
- 1		1.

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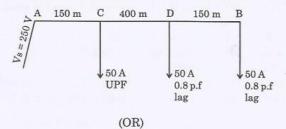
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(1×15=15 Marks)

PART – C

16. a) A single phase AC distributor of 700 m length has total impedance  $(0.022 + j0.42)\Omega$ . It is fed at one end at 250 V. If the load distribution is as shown in following figure, calculate voltage at far end.



- b) i) 'A feeder is designed based on its current carrying capacity rather than voltage drop in it' – Justify.

  (8)
  - ii) A string of 4 insulators unit has the self capacitance equal to 5 times the pin-earth capacitance. Neglating of leakage, find (A) Voltage distribution from top to bottom insulator in percentage of the total voltage. (B) String efficiency.

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