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EEE Dept. Exam.

Internal Assessment

Even Sem(2017-18)

RBT L

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FIRST INTERNAL ASSESSMENT

Sem:IV Date:06/03/2018 Sub: Transmission and Distribution

Time:11:00AM-12.00 Noon

Sub. Code: 15EE43 Max. Marks: 25

M

8

Note: Answer two full questions, draw sketches wherever necessary. Discription of Question

Q.N		Discription of Question
	a b	An overhead three phase short transmission line delivers 5MW at 22kV at 0.8 p.f lagging. The resistance and reactance of each conductor is 4 ohm and 6 ohm respectively. Draw the phasor diagram and Determine, Sending end voltage, Sending end p.f, percentage regulation, transmission efficiency. Write a brief note on Short transmission line.

5 CO211.1 L3

CO211.1

CO211.1

CO

OR A three phase, 50Hz, 150km line has a resistance, inductive reactance and capacitive shunt admittance of 0.1 ohm, 0.5 ohm and 3×10⁻⁶ siemens per km per phase respectively. If the line delivers 50MW at 110kV and 0.8 p.f lagging, determine the sending end voltage, sending end current, sending end p.f, percentage regulation and efficiency. Assume a nominal- π circuit for the line. Draw relevant phasor diagram.

L3 5 CO211.1

Derive an expression for sending end voltage and current for a medium transmission line using nominal-pi method.

8 CO211.1 CO211.1

Determine A, B, C, D constants of a short transmission line.

8 Derive an expression for sending end voltage and current for a medium transmission line using nominal-T method.

CO211.1

CO211.1

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Course Coordinator

Write a brief note on medium transmission line.

Determine A, B, C, D constants of a long transmission line.

Module Coordinator

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EEE Dept.

Even Sem(2017-18)

FIRST INTERNAL ASSESSMENT

Sem:IV Date:06/03/2018 Sub: Transmission and Distribution

Time:11:00AM-12.00 Noon

Sub. Code: 15EE43 Max. Marks: 25

Note: Answer two full questions, draw sketches wherever necessary.

	N _	Discription of Question	M	CO	RBT L
1	a	An overhead three phase short transmission line delivers 5MW at 22kV at 0.8 p.f lagging. The resistance and reactance of each conductor is 4 ohm and 6 ohm respectively. Draw the phasor diagram and Determine, Sending end voltage, Sending end p.f, percentage regulation, transmission efficiency.	8	CO211.1	L3
		Write a brief note on Short transmission line.	_	CO211.1	12
	b	Write a brief note on Short transmission line.	5	CO211.1	L3
		OR			
2	a	A three phase, 50Hz, 150km line has a resistance, inductive reactance and capacitive shunt admittance of 0.1 ohm, 0.5 ohm and 3×10^{-6} siemens per km per phase respectively. If the line delivers 50MW at 110kV and 0.8 p.f lagging, determine the sending end voltage, sending end current, sending end p.f, percentage regulation and efficiency. Assume a nominal- π circuit for the line. Draw relevant phasor diagram.	8	CO211.1	L3
	b	Write a brief note on medium transmission line.	5	CO211.1	L3
3	a	Derive an expression for sending end voltage and current for a medium transmission line using nominal-pi method.	8	CO211.1	L3
	b	Determine A, B, C, D constants of a short transmission line.	4	CO211.1	L3
		OR			
4	a	Derive an expression for sending end voltage and current for a medium transmission line using	8	CO211.1	L3

Course Coordinator

Determine A, B, C, D constants of a long transmission line.

nominal-T method.

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CO211.1

L3

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IA Scheme

2017-18 Even Sem

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E&E Engg Dept IA Scheme 2017-18 Even Sem

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SECOND	INTERNAL ASSESSMENT	7
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Sem:IV Date: 12/04/2018 Sub: Transmission and Distribution

Time:11:00AM-12.00 Noon

Sub. Code: 15EE43

Max. Ma	rles 25	

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. 5	CO211.2	L2
8	CO211.2	L2
luctor at water 5 ne conductor is e conductor is	CO211.2	L2
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SECOND INTERNAL ASSESSMENT

Date: 12/04/2018

Sub: Transmission and Distribution

Time:11:00AM-12.00 Noon

Sub. Code: 15EE43

Max. Marks: 25

N	Note: Answer two full questions, draw sketches wherever necessary. Discription of Question	M	CO	RBT L
a	Derive an expression for sag for the supports are at equal level.	8	CO211.2	L2
b	Explain in brief typical transmission distribution system scheme with neat diagram.	5	CO211.2	L2
	OR			
a	Derive an expression for sag for the supports are at unequal level.	8	CO211.2	L2
b	The towers of height 30m and 90m respectively support a transmission line conductor at water crossing. The horizontal distance between the towers is 500m. If the tension in the conductor is 1600kg, find the minimum clearance of the conductor and water. Weight of the conductor is 1.5kg/m. Bases of the towers can be considered at water level.	5	CO211.2	L2
a	Derive expressions for the potential distribution over string of suspension type of insulators.	8	CO211.2	L2
b		4		L2
	•	•	00211.2	LL
a	What are the different types of insulators available? Explain with diagrams.	8	CO211,2	L2
b	Explain any two methods to improve string efficiency.	4	CO211.2	L2
	a b a b b	a Derive an expression for sag for the supports are at equal level. b Explain in brief typical transmission distribution system scheme with neat diagram. OR Derive an expression for sag for the supports are at unequal level. b The towers of height 30m and 90m respectively support a transmission line conductor at water crossing. The horizontal distance between the towers is 500m. If the tension in the conductor is 1600kg, find the minimum clearance of the conductor and water. Weight of the conductor is 1.5kg/m. Bases of the towers can be considered at water level. Derive expressions for the potential distribution over string of suspension type of insulators. Define string efficiency and write its importance. OR What are the different types of insulators available? Explain with diagrams.	Discription of Question Derive an expression for sag for the supports are at equal level. Derive an expression for sag for the supports are at equal level. Derive an expression for sag for the supports are at unequal level. Derive an expression for sag for the supports are at unequal level. The towers of height 30m and 90m respectively support a transmission line conductor at water crossing. The horizontal distance between the towers is 500m. If the tension in the conductor is 1600kg, find the minimum clearance of the conductor and water. Weight of the conductor is 1.5kg/m. Bases of the towers can be considered at water level. Derive expressions for the potential distribution over string of suspension type of insulators. Define string efficiency and write its importance. OR What are the different types of insulators available? Explain with diagrams.	Discription of Question Derive an expression for sag for the supports are at equal level. Explain in brief typical transmission distribution system scheme with neat diagram. OR Derive an expression for sag for the supports are at unequal level. Believe an expression for sag for the supports are at unequal level. The towers of height 30m and 90m respectively support a transmission line conductor at water crossing. The horizontal distance between the towers is 500m. If the tension in the conductor is 1600kg, find the minimum clearance of the conductor and water. Weight of the conductor is 1.5kg/m. Bases of the towers can be considered at water level. Derive expressions for the potential distribution over string of suspension type of insulators. Define string efficiency and write its importance. OR What are the different types of insulators available? Explain with diagrams. 8 CO211.2

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Exam IA Scheme

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2017-18 Even Sem

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Page. No.: 102

		SCHEME OF EVALUATION	last tra
Sem	:4 5	Subject: Sub Code: SEE 2 Date: S	Marks CO's
0.00	. Bit	1=500m, T=1600 Kg, W=1.5 Kg, b=90-30=60 m	Co
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- (C)	2 9	Polential Bistelbutian over suspension type membetor.	179
		1/1/1/ F 7 Fa= I/1/1	1 m)
		$V_3 = V_1(1+K)$ $V_3 = V_1(1+3)$ $V_3 = V_1(1+3)$	IM
		V= V1(17K) (3+K)	120
		C = V3 (1+K)(2+K)	IM
		1 Chi3 ts + 1 Storgett = 100	
		"convertance colotein afficiency (not less than 6 lines)	Am coall2
	24	insportance of steingrafficury (not less than 6 lines) a witing different insulators and diagrams b. 2 methods to improve. Steingrafficury	amcach (0211.2
	4	b) 2 methods to improve. Steing efficiency	Am

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Even Sem(2017-18)

THIRD INTERNAL ASSESSMENT

Sem :IV Sub: Transmission and Distribution Date:19/05/2018 Time:11:00AM-12.00 Noon

Sub. Code: 15EE43 Max. Marks: 25

Note: Answer two full questions, draw sketches wherever necessary.

		Note: Answer two full questions, draw sketches wherever necessary.	_		
S.	N	Discription of Question	M	CO	RBT L
1	a	Derive an expression for inductance of a 3-phase overhead line i)symmetrical spacing ii)unsymmetrical spacing.		CO211.2	L3
	b	Briefly explain the concept of self GMD and Mutual GMD.	5	CO211.2	L3
		OR			
2	a	Derive an expression for capacitance of a 3-phase overhead line i)symmetrical spacing ii)unsymmetrical spacing.	8	CO211.2	L3
	b	A three phase overhead transmission line has its conductors arranged at the corners of an equilateral triangle of 2m side. Calculate the capacitance of each line conductor per km. Given that diameter of each conductor is 1.25cm.	5	CO211.2	L3
3	а	Single phase ac distributor AB 300 meters long is fed from end A and is loaded as under, i)100A at 0.707 p.f lagging 200m from point A ii) 200A at 0.8pf lagging 300m from point A Calculate load resistance and reactance of the distributor is 0.2 ohm and 0.1 ohm per kilometer. Calculate the total voltage drop in the distributor. The load power factors refer to the voltage at the far end.	8	CO211.2	L4
	b	Explain primary ac distribution system briefly.	4	CO211.2	L4
		OR			
4	а	A single phase distributor 2km long supplies a load of 120A at 0.8pf lagging at its far end and a load of 80A at 0.9pf lagging at its mid point. Both power factors are referred to the voltage at the far end. The resistance and reactance per km(go and return) are 0.05 ohm and 0.1 ohm respectively. If the voltage at the far end is maintained at 230V, calculate i)voltage at the sending end ii)phase angle between voltages at the two ends.	8	CO211.2	L4
	b	Explain secondary ac distribution system briefly.	4	CO211.2	L4

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Exam IA Scheme

2017-18 Even Sem

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IA Scheme

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E&E Engg Dept

OF EVALUATION Sub Code: KEE Subject: Sem : A Description Q. No. Bit SUH GMD Inductance | Conductor | = 2010 [1/4+10get/5] = 2×107 × 1/4 + 2×107 loge9/0 Ds = GMR OF SELFGMD = 0.7788 8 Dry for Double Ckt - 100 - Fin self arms of conductive = 0,7788 ~

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2017-18 Even Sem

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2017-18 Even Sem

	SCHEME OF EVALUATION	100110	
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	C NOOM R	11	
12	1 000my		
	T2=120A		. T.
	$\int_{1}^{1} = \sqrt{20} A$ $\cos \theta_{1} = 0.9 \log$ $\cos \theta_{2} = 0.2 \log$		
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	Inspedance of otete/butal /m = 0.05+ 100/ -2	47	
	24.3 de = 0.05 + jool - 2	'	
	$Z_{CB} = 0.051j_0.1-1$		
	B=280+j0 -> :0.00 A		
	Ja=96-172 F= 72-134.88 A		
	$\Delta = 96 - 1/2$ $\Delta = 168 - 106.88$ $\Delta = 96 - 1/2$ $\Delta = 168 - 106.88$		7
	(+1+ta) (+1+ta)	to sm	
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	VA = VB+ VCB+ VAC = 201-001 11/1		
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	The programmed tand= 17.45 =0.0668 4 b) Boog Explanation School Ac distribution	D AM	
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