INTRODUCTION TO ELECTRICAL ENGINEERING (25EE104)

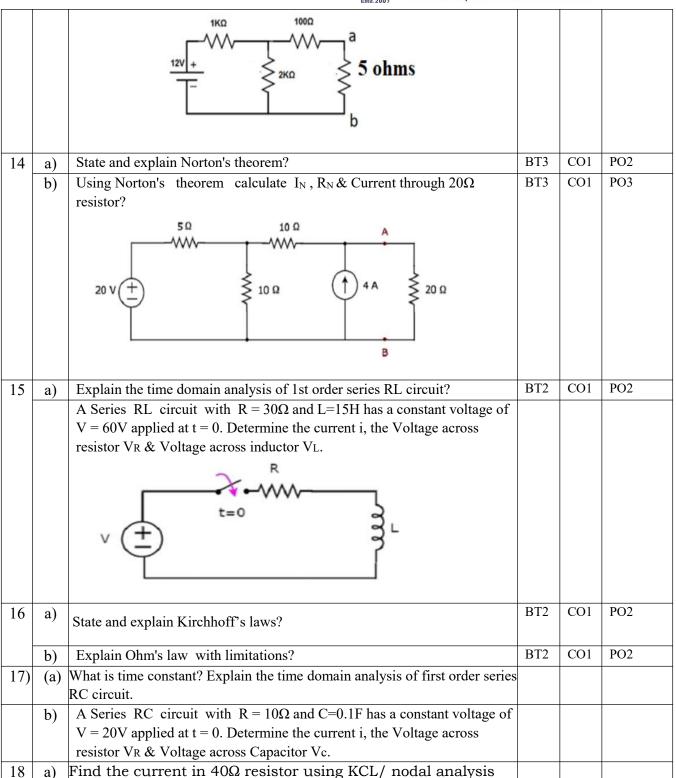


UNIT-1

D.C. Circuits

S.	No	Questions	BT	CO	PO
		Part – A (Short Answer Questions)		•	
	1	Define charge, voltage, current ,power and circuit.	BT2	CO1	PO1
2		State Ohm's law?	BT1	CO1	PO1
3		State Kirchhoff's current law (KCL).	BT2	CO1	PO1
4		State Kirchhoff's voltage law(KVL).	BT2	CO1	PO1
5		Distinguish between a mesh and loop of a circuit.	BT3	CO1	PO2
6		State Thevenin's theorem.	BT3	CO1	PO2
7		State Norton's theorem.	BT2	CO1	PO2
8		State Superposition theorem.	BT2	CO1	PO1
9		What is the difference between linear circuit and non linear circuit?	BT2	CO1	PO2
1	0	What are the limitations of Ohm's law?	BT3	CO1	PO1
Part – B (Long Answer Questions)					
11		Three resistors: R $1=5\Omega$, R $2=10\Omega$, R $3=15\Omega$ are connected in parallel across a DC voltage source: 100V. Find the currents I_1 , I_2 , I_3 through R_1 , R_2 , R_3 and the total current supplied by 100V source?	BT3	CO1	PO2
	b)	Discuss resistor, inductor and capacitor with relevant expressions?	BT2	CO1	PO2
12	a)	State and explain superposition theorem.			
		Using super position theorem find the current passing through 4Ω resistor $ \frac{8\Omega}{4\Omega} + \frac{1}{4\Omega} \frac{3}{4\Omega} $	BT4	CO1	PO2
13	a)	State and explain Thevenin's theorem?	BT3	CO1	PO2
	b)	Using Thevenin's theorem calculate the current in 50hm resistor?	BT2	CO1	PO2

INTRODUCTION TO ELECTRICAL ENGINEERING (25EE104)



INTRODUCTION TO ELECTRICAL ENGINEERING (25EE104)



