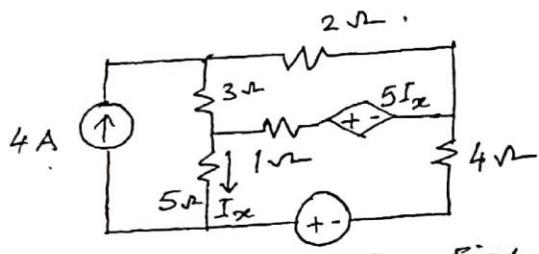
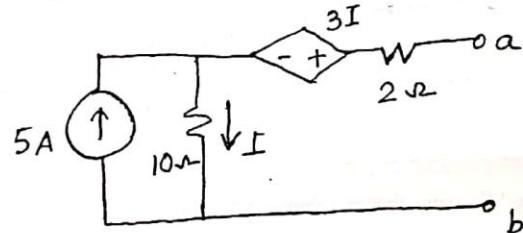
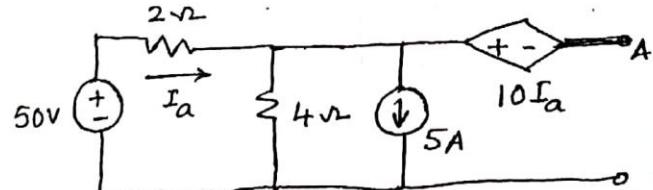


Internal Assessment Test - II

Sub:	Electric Circuit Analysis	Code:	18EE32
Date:	12/10/2019	Duration:	90 mins Max Marks: 50 Sem: 3 Branch: EEE

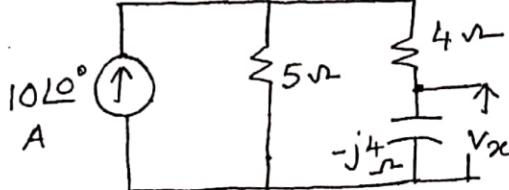
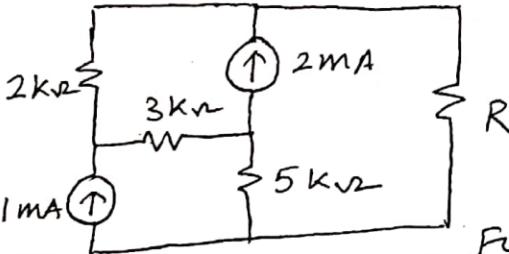
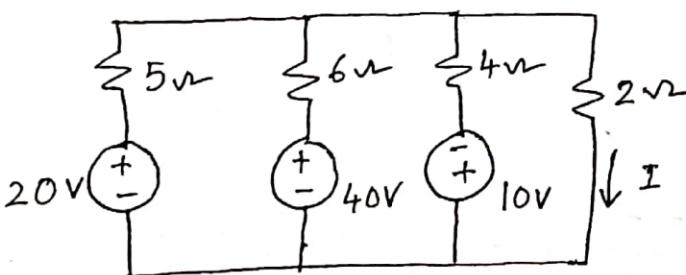
Answer Any FIVE FULL Questions

	Marks	OBE
		CO RBT
1 Use superposition theorem to find I_x of the network shown in fig1.	[10]	CO3 L4
		
Fig 1.		
2 Find current I using Norton's theorem shown in fig2.	[10]	CO3 L4
		
Fig 2.		
3 Find Thevenin's equivalent circuit across the terminal A-B of the network shown in fig3.	[10]	CO3 L4
		
Fig 3.		

1.

P.T.O

P.T.O

4	Verify Reciprocity theorem for the circuit shown in fig4.	[10]	CO3	L3
				
	Fig 4.			
5a	Obtain the condition for an alternating voltage source to transfer maximum power to the load when the load impedance is the complex conjugate of the source impedance.	[5]	CO3	L3
5b	Find the value of load resistance R when maximum power is transferred across it in the network shown in fig(5b).	[5]	CO3	L3
				
	Fig (5 b).			
6a	State and prove Millman's theorem.	[4]	CO3	L3
6b	Determine the current I by applying Millman's theorem shown in fig(6b).	[6]	CO3	L3
				
	Fig (6 b).			

2.

P.P

- end -

P.P