R	A	2	1											

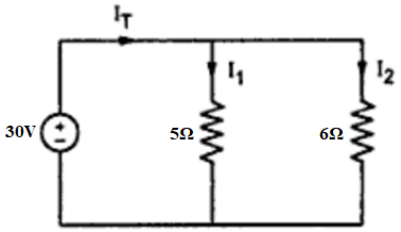
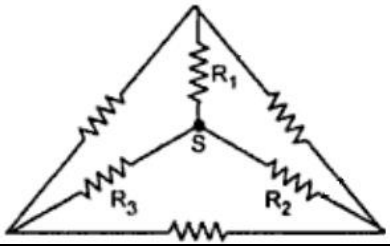
COLLEGE OF ENGINEERING & TECHNOLOGY,
SRM INSTITUTE OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Cycle Test – I SET- B

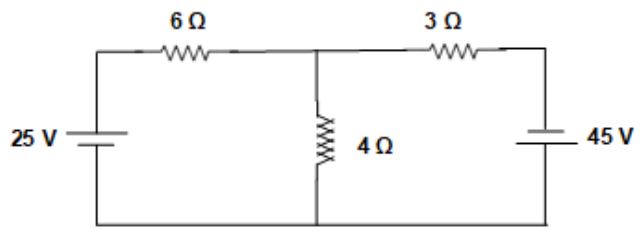
Academic Year: 2021-2022 (EVEN SEM)
Program offered: B.Tech
Year / Sem : I/II
Course Code and Title: 18EES101J/ BASIC ELECTRICAL AND ELECTRONICS ENGINEERING
Maximum Marks: 25
Date and Time: 21/04/2022 and 08:00 am to 08:50 am

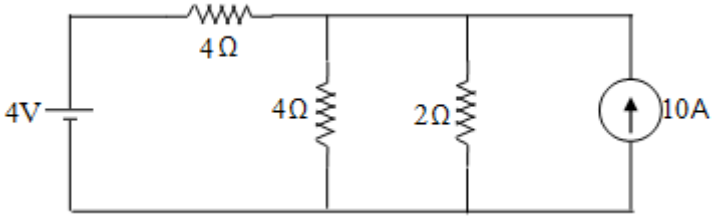
Learning Assessment (CLA 1)			
Levels	**Level of Thinking**	**Weightage Required (%)**	**Weightage Provided(%)**
1	Remember Understand	40%	40%
2	Apply Analyze	60%	60%

PART A (Answer all the questions) **3x4 MARK=12 MARKS**

Q. No.	Questions	Reference to CO	Reference to PO	Bloom's Taxonomy	Marks Allotted	Marks Scored
1.	a. Identify the current I_1 and I_2 in the given circuit using current division rule  b. Give the current equation and the graph for a series R-L circuit	CO1	1	Understand	4	
2.	State Thevenin's theorem. Illustrate briefly the procedure to arrive at its equivalent circuit.	CO1	1,2	Knowledge, Apply	4	
3.	Convert given star circuit to its equivalent delta form, if R_1 = 2Ω, R_2 = 3Ω and R_3 = 5Ω 	CO1	1,2	Understand	4	

PART B (Answer all the questions) **1x13 MARKS=13 MARKS**

Q. No.	Questions	Reference to CO	Reference to PO	Blooms Taxonomy	Marks Allotted	Marks Scored
4a.	Use mesh analysis to find current flowing through each resistor. Also find the power dissipated through 4Ω resistor 	CO1	1,2	Apply	13	

	(OR)					
4b.	Calculate the current through 2Ω resistor of the given circuit using superposition theorem 	CO1	1,2	Apply	13	

CO ASSESSMENT		
Course Outcomes	**Marks Allotted**	**Marks Scored**
CO1	**25**	
CO2	**-**	**-**
CO3	**-**	**-**
CO4	**-**	**-**
CO5	**-**	**-**
CO6	**-**	**-**
Total	**25**	

Total Marks Scored: **Signature of the Faculty**