R	A	2	1											

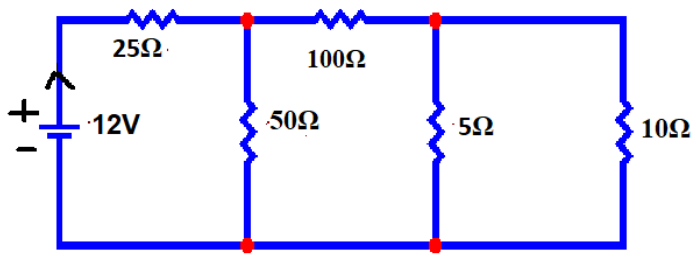
COLLEGE OF ENGINEERING & TECHNOLOGY,
SRM INSTITUTE OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Cycle Test – I SET- D

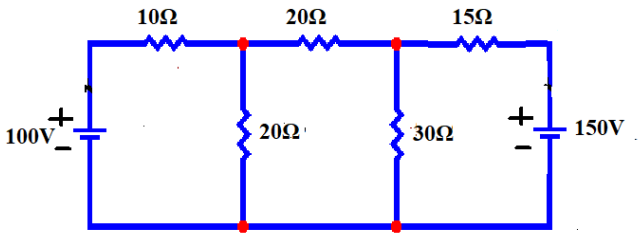
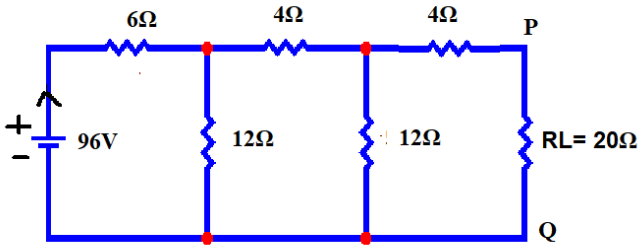
Academic Year: 2021-2022 (EVEN SEM)
Program offered: B.Tech
Year / Sem : I/II
Course Code and Title: 18EES101J/ BASIC ELECTRICAL AND ELECTRONICS ENGINEERING
Maximum Marks: 25
Date and Time: 21/04/2022 and 12:30 pm to 01:20 pm

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	What are active and passive elements?	CO1	1	Understand	2	
1.b	What is a lumped circuit?	CO1	1	Understand	2	
2.	Find 'R' equivalent and current flowing due to a source of 12V for the circuit shown in Figure . 	CO1	1,2	Apply	4	
3.	State and prove the maximum power transfer theorem.	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.	Using nodal analysis, Find all node voltage in the given circuit. 	CO1	1,2	Apply	13	
	(OR)					
4b.	For the circuit. Determine the following: a) the open circuit emf at the load terminals PQ b) the Thevenin's resistance at PQ c) the load current d) load power 	CO1	1,2	Apply	13	

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

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