VIT

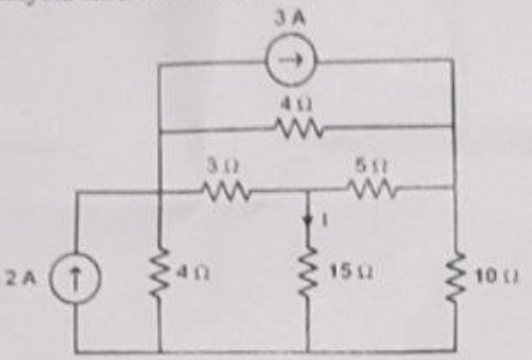
Vellore Institute of Technology

			SLOT: B2+TB2
School of Information Technology and Engineering			
Winter Semester 2022-2023		Continuous Assessment Test – I	
Programme Name & Branch		B.Tech. Information Technology	
Course Code:	BEEE102L	Course Title:	Basic Electrical and Electronics Engineering
Class Number(s)	VL2022230500372; VL2022230505828		
Faculty Name(s)	Arun S L; Rajesh Kumar Lenka		

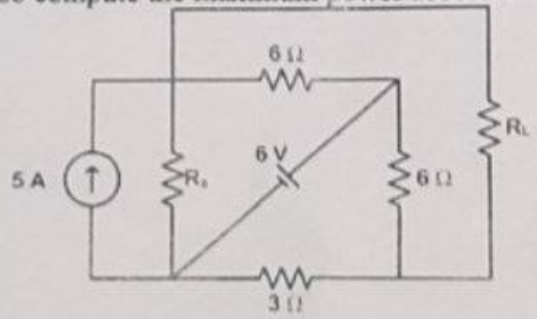
Exam Duration: 90 Min. **Maximum Marks: 50**

General instruction(s): Answer all questions.

Q.No.	Question	Max Marks
1.	Using nodal voltage analysis find the current 'I'.	10



2.	When the load resistance (R_L) is equal to 5Ω, it absorbs maximum power. Find the value of resistance R_S and also compute the maximum power absorbed by load resistance.	10



3.	Using superposition theorem find the current '*i*'	10