



**VIT**  
Vellore Institute of Technology  
(Deemed to be University under section 3 of UGC Act, 1956)

SCHOOL OF ELECTRICAL ENGINEERING

CONTINUOUS ASSESSMENT TEST – I

WINTER SEMESTER 2022-2023 (Freshers)

Programme Name & Branch: UG Freshers (B. Tech)

Course Code: BEEE102L

Course Name: Basic Electrical and Electronics Engineering

Faculty Name(s): Tapan Prakash

Emp.ID(s): 17094

Class Number(s): VL2022230504570

Exam Duration: 90 minutes

Maximum Marks: 50

General instruction(s): Answer all questions. Assume suitable data if necessary.

Q.No	Question	Marks
1.	<p>Analyse circuit given below by nodal analysis and find the voltages <math>V_1</math> and <math>V_2</math>. Resistance values are in ohms.</p>	10
2.	<p>Find the branch currents through resistances <math>R_1</math>, <math>R_2</math>, <math>R_3</math> and <math>R_4</math> using mesh current analysis. Resistance values are in ohms.</p>	10