

BRAC University

Dept. of Computer Science and Engineering

Assessment:
Full Marks:
SET

Quiz 1

Α

Name:	

Student ID:

Semester: Fall 2023 Course Code: CSE251 Section: **15**

Course Name: Electronic Devices and Circuits

- No washroom breaks. Phones must be turned off. Using/carrying any notes during the exam is not allowed.
- At the end of the exam, the exam script must be returned to the invigilator.
- ✓ Marks allotted for each question are mentioned beside each question.
- Write your answers inside the indicated boxes (where applicable). If you run out of room for an answer, please continue on the back of the page".
- Symbols have their usual meanings.

Question 1: 10 Marks

The two lines L_1 and L_2 signify the two loops in the adjacent circuit. Let input voltage $V_{\rm IN}=4.0~\rm V.$

- i. Write the two loop equations along L_1 and L_2 using the quantities I_1 , I_2 and $I_1 + I_2$.
- ii. Solve the two loop equations to find I_1 and I_2 .
- iii. Find $V_{\rm OUT}$.

