## **COLLEGE OF TECHNOLOGY**

## Quick test no.1

## **EEC207: Circuit Analysis**

**Duration: 15mn** 

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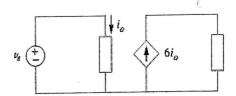
Matricule: CTIFAO16

NB on MCQ questions: read the questions carefully and mark an X only on the letter of the correct answer.

- 1. One millivolt is one millionth of a volt.
- (a) True
- (b) False

- 2. The unit of current is:
- (a) coulomb
- (X) ampere

- 3. A 4-A current charging a dielectric material will accumulate a charge of 24 C after 6 s. (24) True (b) False
- 4. The dependent source in the figure beside is:
- voltage-controlled current source
- (b) voltage-controlled voltage source
- (c) current-controlled voltage source
- (d) current-controlled current source



5. In some circuit element the power is 20 W and the voltage is 10 V. How much current flows?

P = 20W, V = 10V, I=?

But P=IV and I=
$$\frac{P}{10}$$
=> I =  $\frac{20}{10}$  = 2A

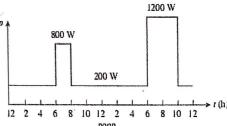
6. A flashlight battery has a rating of 0.8 ampere-hours (Ah) and a lifetime of 10 hours.

(a) How much current can it deliver? (b) How much power can it give if its terminal voltage is 6 V? (c) How much energy is stored in the battery in Wh?

$$L = \frac{Q}{t} = \frac{0.8Ah}{10}$$

7. Figure beside shows the power consumption of a certain household in 1 day. Calculate: (a) the total energy consumed in kWh,

(b) the average power per hour over the total 24 hour period.



8. Find I and the power absorbed by each element in the network below:

