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Elec2400 **ELECTRONIC CIRCUITS** Fall 2021-22

Lab Section No. : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Student Number : \_\_\_\_\_\_\_\_\_\_\_\_

**LAB 2 –** **PSpice Circuit Simulation**

**Q1**. Complete Table 1 according to your simulation results.

Table 1

|  |  |
| --- | --- |
|  | PSpice Simulation Results |
| Voltage Va |  |
| Current Ia |  |

**Q2**. What is the simulated Vab? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_V

**Q3**. What is the simulated VOC? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_V

**Q4**. What is the simulated ISC? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_A

**Q5**. What is the calculated RT? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**Ω**

**Q6**. What is the calculated IO? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_A

**Q7**. What is the calculated Vab ? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_V

**Q8**. What is the simulated Va? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_V

**Q9**. What is the equation of Va(t)? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_V

**Q10**. What is the maximum Va? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_V

**Q11**. What is the frequency ? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Hz

**Q12**. Show all the circuits and waveform to TA. \_\_\_\_\_YES / NO\_\_\_\_\_\_\_\_