



**Faculty of Electrical & Electronics Engineering  
DEE3143 Basic Electrical Machine & Power System**

Name: \_\_\_\_\_

ID: \_\_\_\_\_

Section: \_\_\_\_\_

Date: \_\_\_\_\_

(Failed to complete all the particulars above will be penalized 2 marks)

**QUIZ 1**

**Question**

A simple power system is shown in Figure 1 below and all parameters within the Figure 1. Find the current at the generator,  $I_G$ , transmission line,  $I_{line}$  and load,  $I_{load}$ . Analyze the power loss,  $P_{loss}$  in the transmission line.

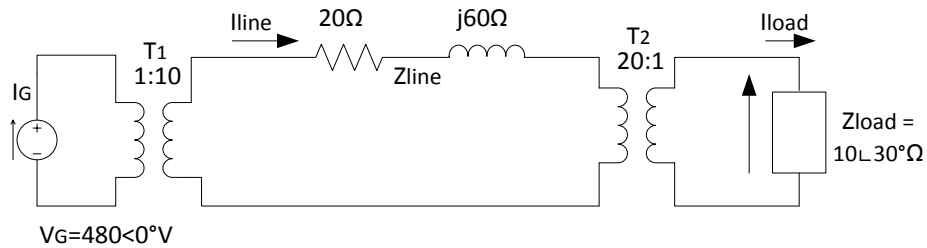


Figure 1

**[10 marks]**