

## Quiz 2

Student Name:

NO. :

The weldment shown in the figure is subjected to an alternating force  $F$ . The hot-rolled steel bar is 10 mm thick and is of AISI 1010 steel. The vertical support is likewise of 1010 steel. The electrode is 6010. Estimate the fatigue load  $F$  the bar will carry if three 6-mm fillet welds are used.

