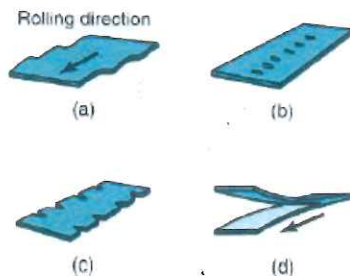


注意事項：（1）本試題共有 5 題，全部作答，合計一百分。（2）請依序作答於答案卷上並註明題號。（3）不可使用計算機，close book。

1. (a) Please explain the formation and destruction of BUE (Built-up Edge) in cutting process. (10%)
(b) If you hope to reduce the tendency for BUE formation, what you can do? (10%)
2. (a) Please draw the pictures to show the climb milling and conventional milling. (10%)
(b) What are the differences between the two methods (climb milling and conventional milling) applied in the face milling? (10%)
3. Please explain quenching, tempering, and annealing. (20%)
4. The following figure (a)~(d) shows the defects in rolled plates and sheets. Why the defects are happened? (20%)



5. The cutting fluids might be applied in 3 different directions shown in the following figure. Please describe the effects caused by different directions in the cutting? (20%)

