Homework 2: Understanding 3D printing

1. Which **one** of the following shapes does an STL file turn a CAD drawing into? [1]

⬨ Squares

⬨ Triangles

⬨ Circles

⬨ Pentagons

2. Which **one** of the following does CNC stand for? [1]

⬨ Computer numerical control

⬨ Complete number control

⬨ Control numbered computer

⬨ Counting nearly complete

3. What does FFF or FDM stand for when talking about 3D printing processes? [1]

4. Name **one** other common methods of 3D printing? [1]

5. Whichever method you choose to print with, the following stages must be done:

i A digital model must be created using CAD software. [1]

Name **one** CAD software package.

ii The model must be saved as an STL file. [1]

What does STL stand for?

iii A file must be run through post-processing software such as [1]  
CURA or Makerware.

What does this software do?

iv The slicing software turns the STL file into a language that the computer   
can understand. [1]

What is this known as?

5. Explain the difference between the X and Y axis on a 3D printer? [2]

Total 10 marks