**CAD/CAM Past Paper Questions**

1. A company uses both CAD and CAM to develop and make a product.

(a) Describe, using a suitable example, the role of CAD and CAM in this process. [3]

(b) Give two advantages and one disadvantage that CAD gives the company. [3]

(c) Give two advantages and one disadvantage that CAM gives the company. [3]

2. Architects use Computer Aided Design (CAD) software when designing a new house. Describe an advantage that each of the following features of CAD software gives an architect when designing a new house. [4] zoom stress/strain walkthrough hatching/rendering

3. Listed below are four features of a CAD package.

hatching/rendering wiredrawing walkthrough rotate

Describe how each could be used by an architect when designing a house. [4]

4. CAD (Computer-aided design) software allows a user to draw accurate plans and designs.

(a) Other than zoom or rotation, describe two other features of a CAD package, giving an appropriate distinct example of how each could be used. [4]

(b) Many industries now use CAM (Computer-aided manufacture). Describe by using an example the relationship between CAD and CAM. [2]

5. An architect uses Computer Aided Design (CAD) software. Describe an advantage of each of the following features of CAD software to the architect, when designing a new building. Rotate, stress/strain, wire drawing, walkthrough