

8. This question is about ICT, CAD, CAM, systems and processes. It is worth a total of 15 marks.

(a) (i) ICT, CAD and CAM are frequently used in textile technology when developing new products.

Place a tick (✓) in the grid below to indicate the most appropriate abbreviated term for each statement. [3]

Statement	ICT	CAD	CAM
Computers controlling machinery.			
Using computers to present information.			
Using computers to develop ideas.			

(ii) The pictures below show two different ways of presenting design ideas.

Computer Aided Design



Hand Drawn Sketch



Describe **two** advantages of using CAD to develop and present ideas compared to hand drawn sketches.

Advantage 1:

 [2]

Advantage 2:

 [2]

(b) The T-shirt shown below needs to be embellished with the abstract design shown alongside.



Abstract design to be placed here



Explain how you would use CAM to print the design onto the T shirt. Include the name of a suitable CAM process in your answer.

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.....[3]

(c) The picture below shows an embroidery machine being used to stitch a motif on to fabric.

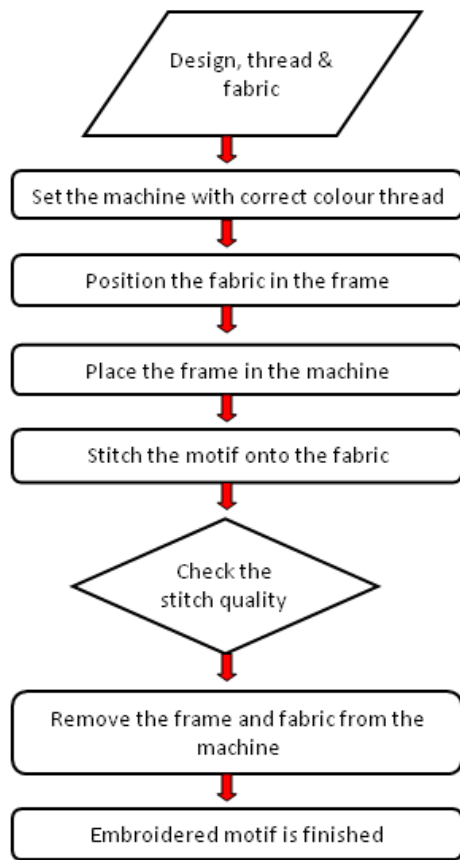


Describe **one** advantage of using this method of manufacture.

[2]

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(d) The flowchart below shows the organisation of processes needed to stitch a motif onto fabric.



- (i) On the diagram above draw an appropriate feedback loop. [1]
- (ii) Explain the importance of feedback in controlling systems. [2]

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