

EXAMINATION QUESTIONS - INPUT, PROCESS AND OUTPUT

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HELPFUL LINKS: <https://technologystudent.com/despro2/cncsys1.htm>

1. A CNC production facility needs three main pieces of equipment - a computer, an interface and a CNC (Computer Numerical Control Machine). Write notes alongside the subheadings, explaining their main functions. **16 marks**

Key words / phrases have been written underneath each subheading. These may help you write about the functions of each aspect of the CNC machine and associated equipment.

A COMPUTER: _____

CAD SOFTWARE DESIGN CONVERT COORDINATES

INTERFACE: _____

MODERN CNC MACHINES INTEGRATED INTERFACE DIGITAL SIGNALS
 OLDER CNC MACHINES CONVERTS

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CNC MACHINE: _____

COMPUTER NUMERICAL CONTROL	CNC	X, Y, Z	HORIZONTAL
VERTICAL	DEPTH		

2. A systems chart / diagram can be used to explain the way products and technology work. Explain the meaning of the following:

INPUT: _____

PROCESS: _____

OUTPUT: _____

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HELPFUL LINKS:

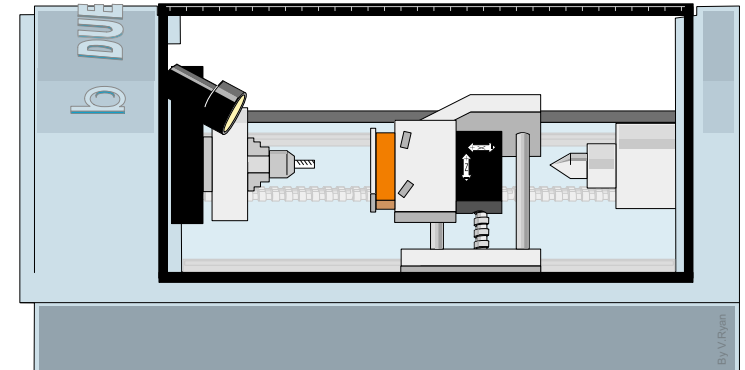
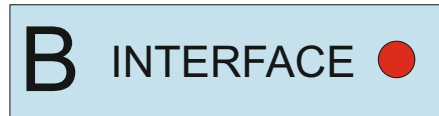
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3. The whole process of designing and making an item on the CNC machine can be split into three subsystems **INPUT-PROCESS-OUTPUT**. The diagram below shows a systems diagram of CNC work. However, it is incomplete. Complete the systems diagram, by adding missing drawings and text / information. **6 marks**

INPUT

PROCESS

OUTPUT



THE COMPUTER IS USED TO **INPUT** THE DESIGN. SOFTWARE SUCH AS TECH SOFT IS USED TO DRAW THE DESIGN. THE COMPUTER CONNECTS TO THE INTERFACE.

THE INTERFACE **PROCESSES** THE SIGNALS FROM THE COMPUTER TO A FORM THAT THE CNC MACHINE CAN USE. THE INTERFACE IS CONNECTED TO THE CNC MACHINE