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DESIGN AND TECHNOLOGY REVISION BOOKLET

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WORLD ASSOCIATION OF TECHNOLOGY TEACHERS

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PRODUCTION SYSTEMS - BOOKLET 3

COMPUTER INTEGRATED MANUFACTURE (CIM)
REMOTE MANUFACTURING
FLEXIBLE MANUFACTURING SYSTEMS
JUST IN TIME (JIT)
LEAN MANUFACTURING

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SUITABLE REVISION MATERIAL FOR:

**DESIGN AND TECHNOLOGY
PRODUCT DESIGN
RESISTANT MATERIALS
GRAPHIC PRODUCTS**

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COMPUTER INTEGRATED MANUFACTURE (CIM)

LINKS TO HELP AND INFORMATION

<https://www.technologystudent.com/rmprp07/intman1.html>
<https://www.technologystudent.com/rmprp07/injec1.html>

1. In simple terms, what is CIM? **4 marks**

2. In the space below, draw a labelled layout of a factory, that is a typical example of CIM. **6 marks**

3. Explain the layout that you have drawn for question 2. **4 marks**

FLEXIBLE MANUFACTURING SYSTEMS (FMS)

LINKS TO HELP AND INFORMATION

<https://www.technologystudent.com/prddes1/flexbl1.html>

<https://www.technologystudent.com/prddes1/flexbl3.html>

8. Briefly, what is a Flexible Manufacturing System? **4 marks**

9. With reference to the manufacture of CDs / DVDs, describe how they are manufactured through a flexible manufacturing system. **6 marks**

JUST IN TIME (JIT)

LINK TO HELP AND INFORMATION <https://www.technologystudent.com/prddes1/justintime1.html>

10. What is 'Just in Time' ? Include the stages from the customer order, ordering materials and components, manufacturing on the production line and finally distribution of the finished product. **8 marks**







JUST IN TIME (JIT)

LINK TO HELP AND INFORMATION <https://www.technologystudent.com/prddes1/justintime1.html>

11. Describe some of the advantages of Just in Time. **6 marks**

LEAN MANUFACTURING

LINKS TO HELP AND INFORMATION

https://www.technologystudent.com/despro_3/lean1.html
https://www.technologystudent.com/despro_3/lean2.html

12. What is Lean Manufacturing? **8 marks**

13. Complete the diagram below, by adding the rest of the key features of Lean Manufacturing. **6 marks**

LEAN MANUFACTURE - KEY FEATURES DIAGRAM

