

Write your name here

Surname

Other names

Edexcel
Principal Learning

Centre Number

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Candidate Number

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Manufacturing and Product Design

Level 1

Unit 1: Introduction to Manufacturing

Thursday 12 January 2012 – Afternoon

Time: 45 minutes

Paper Reference

MP101/01

You may use a calculator.

Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.

Information

- The total mark for this paper is 30.
- The marks for **each** question are shown in brackets
– use this as a guide as to how much time to spend on each question.

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ►

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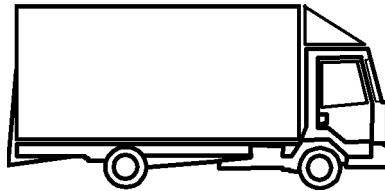
ALL questions must be answered with a cross in a box ☒. If you change your mind about an answer, put a line through the box ☒ and then mark your new answer with a cross ☒.

1 Which manufacturing business process is involved with ensuring products are kept securely in a warehouse?

A	Distribution	<input type="checkbox"/>
B	Accounts	<input type="checkbox"/>
C	Maintenance	<input type="checkbox"/>
D	Storage	<input type="checkbox"/>

(Total for Question 1 = 1 mark)

2 The drawing below shows a lorry.



This type of vehicle is designed for:

A	marketing	<input type="checkbox"/>
B	storage	<input type="checkbox"/>
C	distribution	<input type="checkbox"/>
D	packaging	<input type="checkbox"/>

(Total for Question 2 = 1 mark)

3 Which manufacturing business process is involved with promoting products to customers?

A	Storage	<input type="checkbox"/>
B	Accounts	<input type="checkbox"/>
C	Maintenance	<input type="checkbox"/>
D	Marketing	<input type="checkbox"/>

(Total for Question 3 = 1 mark)



4 Which manufacturing business process would a manufacturer use to ensure production machinery is working effectively?

A	Maintenance	<input type="checkbox"/>
B	Sales	<input type="checkbox"/>
C	Ordering	<input type="checkbox"/>
D	Accounts	<input type="checkbox"/>

(Total for Question 4 = 1 mark)

5 Which **one** of the following is an example of a manufacturing business process for a car manufacturer?

A	Cleaning the offices	<input type="checkbox"/>
B	Filling the drinks machines	<input type="checkbox"/>
C	Security patrols	<input type="checkbox"/>
D	Ordering parts	<input type="checkbox"/>

(Total for Question 5 = 1 mark)

6 A large manufacturer in a community creates wealth.

This can cause:

A	long-term unemployment to rise	<input type="checkbox"/>
B	spin-off industries to develop	<input type="checkbox"/>
C	redundancies to increase	<input type="checkbox"/>
D	investment to reduce	<input type="checkbox"/>

(Total for Question 6 = 1 mark)

7 Changes to availability of local labour force is a(n):

A	maintenance issue	<input type="checkbox"/>
B	distribution issue	<input type="checkbox"/>
C	social issue	<input type="checkbox"/>
D	environmental issue	<input type="checkbox"/>

(Total for Question 7 = 1 mark)



8 The financial cost of deploying staff for a manufacturing business is a(n):

A	economic issue	<input type="checkbox"/>
B	social issue	<input type="checkbox"/>
C	environmental issue	<input type="checkbox"/>
D	production issue	<input type="checkbox"/>

(Total for Question 8 = 1 mark)

9 A company that is profitable should use the wealth created for:

A	disinvestment	<input type="checkbox"/>
B	reinvestment	<input type="checkbox"/>
C	increasing competitor prices	<input type="checkbox"/>
D	decreasing competitor prices	<input type="checkbox"/>

(Total for Question 9 = 1 mark)

10 A large bakery reduces its emissions.

Emissions reduction is a(n):

A	labour issue	<input type="checkbox"/>
B	storage issue	<input type="checkbox"/>
C	employment issue	<input type="checkbox"/>
D	environmental issue	<input type="checkbox"/>

(Total for Question 10 = 1 mark)

11 A successful manufacturing enterprise is likely to support:

A	staff development	<input type="checkbox"/>
B	staff disputes	<input type="checkbox"/>
C	staff absences	<input type="checkbox"/>
D	staff lateness	<input type="checkbox"/>

(Total for Question 11 = 1 mark)



12 Which manufacturing sub-sector produces bicycle frames?

A	Food and drink	<input type="checkbox"/>
B	Processing and print	<input type="checkbox"/>
C	Engineering manufacture	<input type="checkbox"/>
D	Textile and clothing	<input type="checkbox"/>

(Total for Question 12 = 1 mark)

13 Which product belongs to the chemicals, polymers and pharmaceuticals sub-sector?

A	Fertiliser	<input type="checkbox"/>
B	Agricultural machinery	<input type="checkbox"/>
C	Intelligent fabrics	<input type="checkbox"/>
D	Wind turbines	<input type="checkbox"/>

(Total for Question 13 = 1 mark)

14 Which product belongs to the food and drink sub-sector?

A	Drinks bottle	<input type="checkbox"/>
B	Skimmed milk	<input type="checkbox"/>
C	Plastic bag	<input type="checkbox"/>
D	Steel can	<input type="checkbox"/>

(Total for Question 14 = 1 mark)

15 Which manufacturing sub-sector produces chocolate bars?

A	Engineering manufacture	<input type="checkbox"/>
B	Processing and print	<input type="checkbox"/>
C	Food and drink	<input type="checkbox"/>
D	Textile and clothing	<input type="checkbox"/>

(Total for Question 15 = 1 mark)



16 Which manufacturing sub-sector produces baseball caps?

A	Engineering manufacture	<input type="checkbox"/>
B	Processing and print	<input type="checkbox"/>
C	Food and drink	<input type="checkbox"/>
D	Textile and clothing	<input type="checkbox"/>

(Total for Question 16 = 1 mark)

17 A manufacturer working in the processing and print sub-sector would produce:

A	newspapers	<input type="checkbox"/>
B	radiators	<input type="checkbox"/>
C	polymers	<input type="checkbox"/>
D	petrol	<input type="checkbox"/>

(Total for Question 17 = 1 mark)

18 A soft drinks manufacturer reduces its prices because of competitor pricing.

This is a(n):

A	social issue	<input type="checkbox"/>
B	economic issue	<input type="checkbox"/>
C	environmental issue	<input type="checkbox"/>
D	supply issue	<input type="checkbox"/>

(Total for Question 18 = 1 mark)

19 An electrical component manufacturer uses copper in its products.

If the cost of copper increases, this would normally lead to an:

A	increase in emissions	<input type="checkbox"/>
B	increase in prices	<input type="checkbox"/>
C	increase in delivery times	<input type="checkbox"/>
D	increase in product range	<input type="checkbox"/>

(Total for Question 19 = 1 mark)



20 A yoghurt manufacturer uses milk from a cheaper supplier.

If it sells the yoghurt at the same price this will result in:

A	decreased profit	<input type="checkbox"/>
B	decreased supplies	<input type="checkbox"/>
C	increased profit	<input type="checkbox"/>
D	increased supplies	<input type="checkbox"/>

(Total for Question 20 = 1 mark)

21 A battery manufacturer increases the price of its products.

What would be the most likely consequence of increased prices?

A	Increased sales	<input type="checkbox"/>
B	Decreased sales	<input type="checkbox"/>
C	Increased packaging	<input type="checkbox"/>
D	Decreased packaging	<input type="checkbox"/>

(Total for Question 21 = 1 mark)

22 A vacuum cleaner manufacturer is considering introducing a new product.

Which **one** of the following is a direct cost that the manufacturer must consider?

A	Administration	<input type="checkbox"/>
B	Cleaning	<input type="checkbox"/>
C	Tooling	<input type="checkbox"/>
D	Catering	<input type="checkbox"/>

(Total for Question 22 = 1 mark)

23 Products manufactured in different parts of the world are available to buy in the UK.

This is an example of:

A	spin-off industries	<input type="checkbox"/>
B	reinvestment	<input type="checkbox"/>
C	professional development	<input type="checkbox"/>
D	worldwide competition	<input type="checkbox"/>

(Total for Question 23 = 1 mark)



24 Manufacturing companies that only trade within the UK need to be aware of:

A	international laws	<input type="checkbox"/>
B	international holidays	<input type="checkbox"/>
C	international temperatures	<input type="checkbox"/>
D	international exchange rates	<input type="checkbox"/>

(Total for Question 24 = 1 mark)

25 The direct costs of producing an umbrella are:

Materials 35p

Wages 12p

Other production costs 8p

What is the total direct cost of producing an umbrella?

A	43p	<input type="checkbox"/>
B	45p	<input type="checkbox"/>
C	53p	<input type="checkbox"/>
D	55p	<input type="checkbox"/>

(Total for Question 25 = 1 mark)

26 The cost of producing one tube of toothpaste is £0.08

What is the total cost of producing 200 tubes of toothpaste?

A	£0.80	<input type="checkbox"/>
B	£1.60	<input type="checkbox"/>
C	£8.00	<input type="checkbox"/>
D	£16.00	<input type="checkbox"/>

(Total for Question 26 = 1 mark)



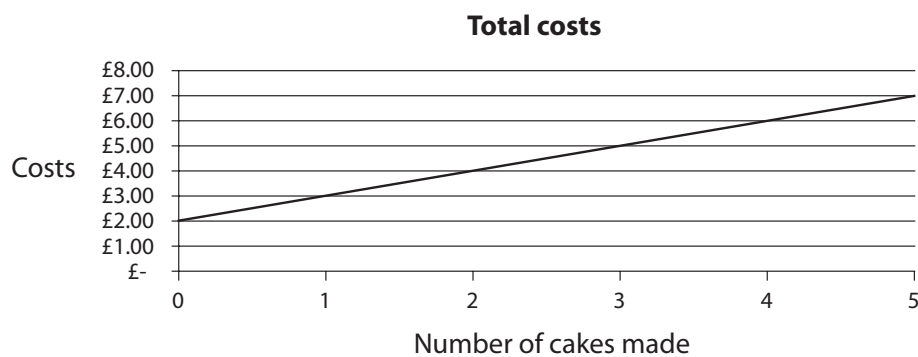
27 The fixed cost for producing 300 pencils is £15

What is the fixed cost of making one pencil?

A	£2	<input type="checkbox"/>
B	£15	<input type="checkbox"/>
C	£20	<input type="checkbox"/>
D	£50	<input type="checkbox"/>

(Total for Question 27 = 1 mark)

28 The total cost of producing cakes consists of fixed and variable costs. These are shown on the graph below.



Using the information from the graph, what is the variable cost of producing one cake?

A	£1.00	<input type="checkbox"/>
B	£1.50	<input type="checkbox"/>
C	£2.00	<input type="checkbox"/>
D	£2.50	<input type="checkbox"/>

(Total for Question 28 = 1 mark)

29 The total cost of making 200 pencils is £15

If the fixed costs are £5.00 what is the variable cost of making one pencil?

A	£0.02	<input type="checkbox"/>
B	£0.05	<input type="checkbox"/>
C	£0.15	<input type="checkbox"/>
D	£10.00	<input type="checkbox"/>

(Total for Question 29 = 1 mark)



30 The profit margin on a tin of soup is 20%.

The selling price of each tin is £0.50

If 100 tins are sold what would the total profit be?

A	£1.00	<input type="checkbox"/>
B	£10.00	<input type="checkbox"/>
C	£20.00	<input type="checkbox"/>
D	£50.00	<input type="checkbox"/>

(Total for Question 30 = 1 mark)

TOTAL FOR PAPER = 30 MARKS



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