

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

Wednesday 15 May 2013 – Morning

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.

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Turn over ►

PEARSON

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 makes sure there is space to keep finished products?

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

(Total for Question 1 = 1 mark)

2 Which manufacturing business process is involved with making products?

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

(Total for Question 2 = 1 mark)

3 Which manufacturing business process would calculate company profit?

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

(Total for Question 3 = 1 mark)

4 Which manufacturing business process would be involved in product promotion?

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

(Total for Question 4 = 1 mark)



5 Recycling waste oil in a manufacturing business is usually considered a(n):

A	marketing issue	<input type="checkbox"/>
B	deployment issue	<input type="checkbox"/>
C	tooling issue	<input type="checkbox"/>
D	environmental issue	<input type="checkbox"/>

(Total for Question 5 = 1 mark)

6 The cost of flour for a cake manufacturer 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 6 = 1 mark)

7 A large car manufacturer relocates to an area of high unemployment.

One of the benefits of this is:

A	more unemployment	<input type="checkbox"/>
B	an opportunity for spin off industries to develop	<input type="checkbox"/>
C	more disinvestment	<input type="checkbox"/>
D	an opportunity for unemployment to develop	<input type="checkbox"/>

(Total for Question 7 = 1 mark)

8 A demographic issue for a manufacturer is:

A	provision of sustainable energy	<input type="checkbox"/>
B	availability of skilled labour	<input type="checkbox"/>
C	availability of raw materials	<input type="checkbox"/>
D	provision of ICT resources	<input type="checkbox"/>

(Total for Question 8 = 1 mark)



9 An employee attends university to complete a qualification.

This would improve the employee's:

A	career prospects	<input type="checkbox"/>
B	unemployment potential	<input type="checkbox"/>
C	demographic capacity	<input type="checkbox"/>
D	internal pricing	<input type="checkbox"/>

(Total for Question 9 = 1 mark)

10 A crisp manufacturer suffers delays in its deliveries as its trucks keep breaking down.

It is **most likely** that the trucks are breaking down due to:

A	emissions issues	<input type="checkbox"/>
B	maintenance issues	<input type="checkbox"/>
C	cleaning issues	<input type="checkbox"/>
D	production issues	<input type="checkbox"/>

(Total for Question 10 = 1 mark)

11 For a clothing manufacturer which **one** of the following is an example of a main business process?

A	Cleaning the offices	<input type="checkbox"/>
B	Filling the vending machines	<input type="checkbox"/>
C	Security patrols	<input type="checkbox"/>
D	Producing products	<input type="checkbox"/>

(Total for Question 11 = 1 mark)

12 Which manufacturing sub-sector produces paints for car manufacturers?

A	Food and drink	<input type="checkbox"/>
B	Processing and print	<input type="checkbox"/>
C	Engineering manufacture	<input type="checkbox"/>
D	Chemicals, polymers and pharmaceuticals	<input type="checkbox"/>

(Total for Question 12 = 1 mark)



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

A	Beer bottles	<input type="checkbox"/>
B	Fruit juices	<input type="checkbox"/>
C	Intelligent fabrics	<input type="checkbox"/>
D	Non-ferrous metals	<input type="checkbox"/>

(Total for Question 13 = 1 mark)

14 Which manufacturing sub-sector produces radiators?

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

(Total for Question 14 = 1 mark)

15 Which manufacturing sub-sector is responsible for nuclear power generation?

A	Engineering manufacture	<input type="checkbox"/>
B	Processing and print	<input type="checkbox"/>
C	Chemicals, polymers and pharmaceuticals	<input type="checkbox"/>
D	Textiles and clothing	<input type="checkbox"/>

(Total for Question 15 = 1 mark)

16 Which product belongs to the engineering manufacture sub-sector?

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

(Total for Question 16 = 1 mark)



17 Which manufacturing sub-sector produces soup?

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

(Total for Question 17 = 1 mark)

18 An electrical goods manufacturer suffers delays in its raw material supply due to a natural disaster.

These delays would **normally** result in reduced:

A	tooling	<input type="checkbox"/>
B	demographics	<input type="checkbox"/>
C	classification	<input type="checkbox"/>
D	production	<input type="checkbox"/>

(Total for Question 18 = 1 mark)

19 A garden equipment manufacturer increases the price of its products.

What would be the **most likely** consequence of increasing prices?

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

(Total for Question 19 = 1 mark)



20 A frozen food manufacturer uses fish in its products.

The cost of fish decreases, this would **normally** lead to a decrease in:

A	vehicle emissions	<input type="checkbox"/>
B	product prices	<input type="checkbox"/>
C	vehicle delivery	<input type="checkbox"/>
D	product production	<input type="checkbox"/>

(Total for Question 20 = 1 mark)

21 A manufacturing enterprise moves its production facility to Asia.

This is **most likely** to result in:

A	higher prices	<input type="checkbox"/>
B	lower costs	<input type="checkbox"/>
C	increased overheads	<input type="checkbox"/>
D	decreased materials	<input type="checkbox"/>

(Total for Question 21 = 1 mark)

22 A mobile phone manufacturer uses raw materials from a cheaper supplier.

If it sells the mobile phones 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 22 = 1 mark)



23 A ketchup manufacturer is considering changing from glass to plastic bottles.

Which **one** of the following costs must be considered before making this change?

A	Weaving	<input type="checkbox"/>
B	Lighting	<input type="checkbox"/>
C	Materials	<input type="checkbox"/>
D	Spinning	<input type="checkbox"/>

(Total for Question 23 = 1 mark)

24 Manufacturers in Europe compete with manufacturers elsewhere because of:

A	worldwide competition	<input type="checkbox"/>
B	global warming	<input type="checkbox"/>
C	worldwide weather	<input type="checkbox"/>
D	global cooling	<input type="checkbox"/>

(Total for Question 24 = 1 mark)

25 For a global manufacturer worldwide trading has resulted in:

A	increased competition	<input type="checkbox"/>
B	reduced competition	<input type="checkbox"/>
C	lower exchange rates	<input type="checkbox"/>
D	higher exchange rates	<input type="checkbox"/>

(Total for Question 25 = 1 mark)

26 The profit margin on a newspaper is 30%.

The selling price of each newspaper is £1.00

If 50 newspapers are sold what would the total profit be?

A	£3.00	<input type="checkbox"/>
B	£15.00	<input type="checkbox"/>
C	£50.00	<input type="checkbox"/>
D	£150.00	<input type="checkbox"/>

(Total for Question 26 = 1 mark)



27 The direct costs of producing a pair of trousers are:

Materials 95p

Wages 22p

Other production costs 15p

What is the total cost of producing a pair of trousers?

A	£1.02	<input type="checkbox"/>
B	£1.12	<input type="checkbox"/>
C	£1.22	<input type="checkbox"/>
D	£1.32	<input type="checkbox"/>

(Total for Question 27 = 1 mark)

28 The fixed cost for making 175 concrete blocks is £350

What is the fixed cost of making **one** concrete block?

A	£350.00	<input type="checkbox"/>
B	£175.00	<input type="checkbox"/>
C	£75.00	<input type="checkbox"/>
D	£2.00	<input type="checkbox"/>

(Total for Question 28 = 1 mark)

29 The cost of producing one magazine is £0.15

What is the total cost of producing 300 magazines?

A	£15.00	<input type="checkbox"/>
B	£30.00	<input type="checkbox"/>
C	£45.00	<input type="checkbox"/>
D	£300.00	<input type="checkbox"/>

(Total for Question 29 = 1 mark)

Question 30 is on the next page.



30 The variable cost of making 500 pairs of gloves is £150

What is the variable cost of making **one** pair of gloves?

A	£0.30	<input type="checkbox"/>
B	£0.33	<input type="checkbox"/>
C	£3.00	<input type="checkbox"/>
D	£3.33	<input type="checkbox"/>

(Total for Question 30 = 1 mark)

TOTAL FOR PAPER = 30 MARKS



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