



**Section A**

The following questions are about how you worked as part of a team.

- 1 State your role in the team. Give the reason you were given that role.

Role

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Reason

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(3 marks)

Successful team members provide support and feedback to others in the group.

- 2 Describe **three** ways of providing support and feedback to others

1 

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3

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(6 marks)

Past question paper

The following questions refer to the developments in materials technology.

The materials used for body armour have developed significantly over the past 100 years.

3 Give **two** reasons why these changes were needed.

1 \_\_\_\_\_

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2 \_\_\_\_\_

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(4 marks)

4 Explain how the different types of materials used in body armour can reduce or prevent injuries.

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(4 marks)

Past question paper

- 5 Early body armour was made from steel plates.

State one specific material now being used. Explain why this material is an improvement on the previous materials.

Material

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Explanation for change

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(4 marks)

The materials developed for use in body armour are now being used in a wide variety of different products.

- 6 Give **three** examples of how this has affected people's lives.

1

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2

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3

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(3 marks)

**Section B**

This section refers to sectors that make up the engineering industry, career and training opportunities and employment legislation.

7 Name the engineering sector that **each** of the following photographs represents.



[www.lowcarboneconomy.com](http://www.lowcarboneconomy.com)

a) \_\_\_\_\_

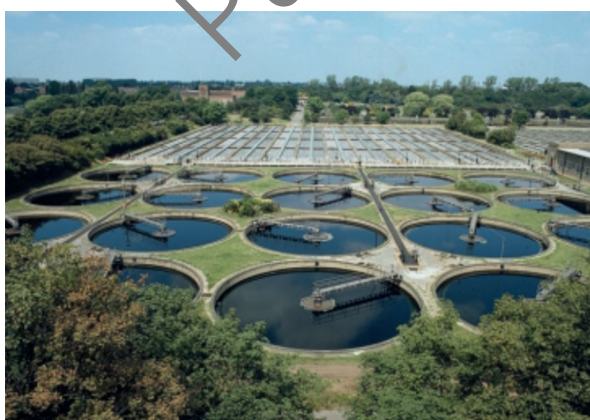
(1 mark)



[www.telegraph.co.uk](http://www.telegraph.co.uk)

b) \_\_\_\_\_

(1 mark)



[www.arcadis-uk.com](http://www.arcadis-uk.com)

c) \_\_\_\_\_

(1 mark)

- 8 a) Describe a **product** from the Built Environment sector of the engineering industry.

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(2 marks)

- b) Describe a **service** from the Built Environment sector of the engineering industry.

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(2 marks)

- 9 a) Describe a **product** from the Nuclear Technologies sector of the engineering industry.

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(2 marks)

- b) Describe a **service** from the Nuclear Technologies sector of the engineering industry.

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(2 marks)

- 10 There are three main engineering job groups:

- Professional
- Technical
- Operative

Complete the table below, stating which of these groups **each** of the following jobs or functions belong to.

Job title or function	Job Group
Computer maintenance	
Production Engineer	
Tyre Fitter	

(3 marks)

- 11 Give one example of a job title in the Oil, Gas and Chemical Manufacturing sector **and** identify the training requirements for that role.

Job title

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Training required

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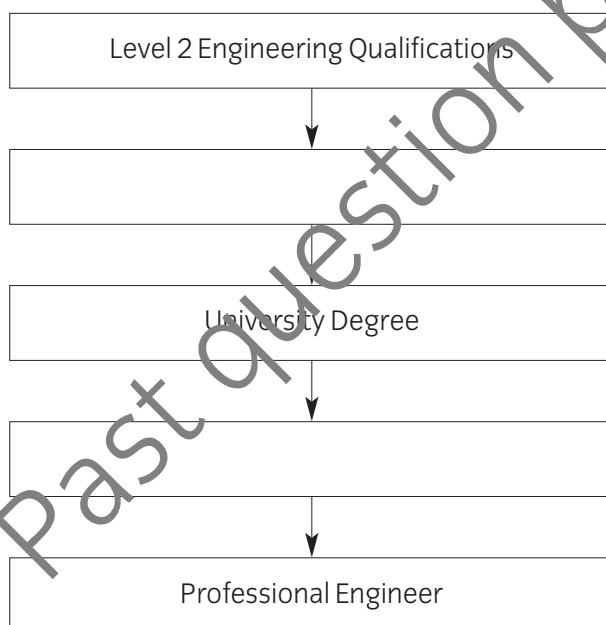
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(2 marks)

- 12 Complete the flow chart below, which shows a typical career path to becoming a professional engineer.



(2 marks)

13 The Institute of Engineering and Technology (IET) is an example of a professional body.

Give two examples of the role of a professional body within the engineering sector.

1 \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2 \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(2 marks)

14 The employment laws for adults are different to those for 16-18 year olds.

Give **two** reasons for this.

1 \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2 \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(2 marks)

Past question paper



- 15 Employees have rights and responsibilities when they are at work.

State one right to personal protection **and** one responsibility when working with hazardous substances such as toxic chemical liquids.

Right

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Responsibility

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(2 marks)

End of assessment

Past question paper

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