

Write your name here

Surname

Other names

Edexcel
Principal Learning

Centre Number

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Candidate Number

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Construction and the Built Environment
Level 3
Unit 1: Design the Built Environment:
The Design Factors

Tuesday 21 May 2013 – Morning
Time: 1 hour 30 minutes

Paper Reference

CB301/01

You do not need any other materials.

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.
- Answer the questions in the spaces provided – *there may be more space than you need.*

Information

- The total mark for this paper is 60.
- 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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PEARSON

Answer ALL questions. Write your answers in the space provided.

SECTION A

1 (a) Describe **two** considerations a project designer should take into account when designing public spaces. (4)

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2

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(b) Describe **two** ways that site location, views and neighbours can influence a project's design. (4)

1

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2

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(Total for Question 1 = 8 marks)



2 Describe **three** potential benefits of using recycled materials for construction projects.

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(Total for Question 2 = 6 marks)



3 Describe **three** crime reduction measures that could be considered at the design stage for the **layout** of a housing estate.

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(Total for Question 3 = 6 marks)

TOTAL FOR SECTION A = 20 MARKS



SECTION B

4 Low energy buildings are an element of sustainable architecture often incorporating renewable energy supplies.

Describe **four** other features of a low energy use building.

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(Total for Question 4 = 8 marks)



5 Describe **three** types of cost to be considered when undertaking a life cycle analysis for a proposed building.

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(Total for Question 5 = 6 marks)



6 A design and access statement (formerly known as the design statement) explains the design thinking behind a planning application.

Explain what is meant by **use**, **layout** and **scale** when writing the **design section** of the statement.

Use

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Layout

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Scale

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(Total for Question 6 = 6 marks)

TOTAL FOR SECTION B = 20 MARKS



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