

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 7: Value and Use of the Built Environment:
Protecting and Maintaining

Monday 23 January 2012 – Morning
Time: 1 hour 30 minutes

Paper Reference

CB307/01

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 Describe **four** reasons for carrying out building maintenance.

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(Total for Question 1 = 8 marks)



2 Describe **four** ways that asset management could help maintain the comfort levels of building users.

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(Total for Question 2 = 8 marks)



3 Describe **four** environmental benefits of using timber frame technology for new building projects.

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(Total for Question 3 = 8 marks)

TOTAL FOR SECTION A = 24 MARKS



SECTION B

4 Describe **three** sustainable energy sources for a new building.

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(Total for Question 4 = 6 marks)



5 Describe **three** types of resources that could be used to help manage building assets.

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(Total for Question 5 = 6 marks)



6 Describe **three** advantages of using proactive maintenance methods for a building project.

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(Total for Question 6 = 6 marks)

TOTAL FOR SECTION B = 18 MARKS



SECTION C

All questions in Section C refer to the following construction scenario.



Business park

A developer has constructed a sustainable business park containing ten high specification, air conditioned office buildings, set in a landscaped environment with dedicated transport connections. The buildings provide excellent natural light, are highly insulated and efficiently sealed to prevent heat loss. They have been built to a BREEAM excellent standard and have a 'B level' Energy Performance Certificate (EPC).



8 With reference to the scenario, describe the main elements of the office buildings that will require planned preventative maintenance (PPM).

A series of horizontal dotted lines for writing the answer.

(Total for Question 8 = 6 marks)



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