

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 11 June 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** types of building services that will require maintenance during the lifecycle of a building.

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(Total for Question 1 = 8 marks)



2 Describe **four** benefits to a community of using light railway developments for travel into inner city areas.

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(Total for Question 2 = 8 marks)



3 Describe **four** items that should be included within an access audit for a building in accordance with the requirements of the Disability Discrimination Act (DDA).

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(Total for Question 3 = 8 marks)

TOTAL FOR SECTION A = 24 MARKS



SECTION B

4 Describe **three** benefits of using ground source heat pumps for domestic dwellings.

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(Total for Question 4 = 6 marks)



5 Describe **three** environmental impact categories used within a BREEAM assessment for a construction project.

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(Total for Question 5 = 6 marks)



6 Describe **three** impacts of the current Environmental Protection Act (EPA) on asset management.

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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.



School building

A local authority is currently investigating the feasibility of refurbishing and extending a small rural primary school as part of its asset portfolio. The school was built in 1930 using traditional solid masonry construction, and consists of classrooms, offices, kitchen, assembly hall and toilets. The external envelope has undergone essential maintenance and new windows have been installed. The building services have received only minor modification in recent years.



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