



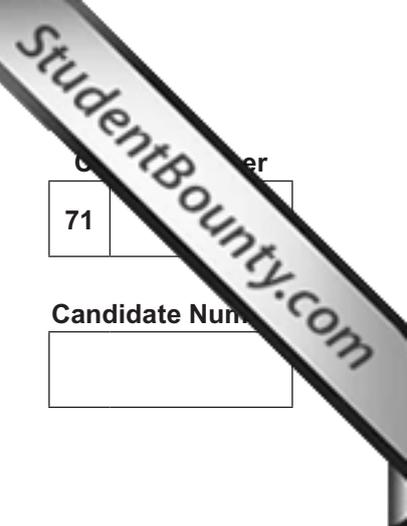
General Certificate of Secondary Education
January 2014

Construction and the Built Environment

Unit 1: The Construction Industry for the 21st Century

[GCB11]

WEDNESDAY 8 JANUARY, AFTERNOON



Centre Number

71

Candidate Number

TIME

1 hour 30 minutes.

INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.
 Write your answers in the spaces provided in this question paper.
 Answer **all eleven** questions.
 Questions **1, 3, 5, 6** and **9** should be answered in relation to the enclosed house drawings and specifications previously issued as Pre-Release Material. You should **not** bring any of the material previously issued into this examination.

INFORMATION FOR CANDIDATES

The total mark for this paper is 120.
 Figures in brackets printed down the right-hand side of pages indicate the marks awarded to each question or part question.
 Quality of written communication will be assessed in Questions **8** and **10**.

A scale ruler is required.

For Examiner's use only	
Question Number	Marks
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	

Total Marks	
--------------------	--



Fig. 2

(b) (i) The type of building shown in **Fig. 2** is a

_____ [1]

(ii) The distinguishing characteristics of this type of building are:

_____ [2]

Examiner Only	
Marks	Remark



Fig. 3

(c) (i) The type of building shown in Fig. 3 is a

_____ [1]

(ii) The distinguishing characteristics of this type of building are:

_____ [2]

Examiner Only	
Marks	Remark



Fig. 4

(d) (i) The type of structure shown in **Fig. 4** is a

_____ [1]

(ii) The distinguishing characteristics of this type of structure are:

_____ [2]

Examiner Only	
Marks	Remark

5 (a) Using the Pre-Release Material explain what the Quantity Surveyor's role is.

[3]

(b) Identify **three** of the main roles that the following members of the construction team would carry out on site.

Electrician

1. _____

2. _____

3. _____ [3]

Bricklayer

1. _____

2. _____

3. _____ [3]

Examiner Only	
Marks	Remark

Material 5 _____

Where is it found?

What is its function?

_____ [3]

Examiner Only	
Marks	Remark



Fig. 6

- (a) Give the name of the material used to make a watertight joint between the roof and the wall shown in **Fig. 6**

_____ [1]

- (b) List the names of **four** other materials used to construct the building shown in **Fig. 6**

_____ [1]

_____ [1]

_____ [1]

_____ [1]

Examiner Only	
Marks	Remark

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(Questions continue overleaf)

9 Fig. 7 below shows an incomplete head detail with a 200 mm wide inner skin which is to be used for the house shown in the Pre-Release Material.

Complete the drawing and include all labels from the list below:

Outer skin of blockwork
 Damp Proof Course
 Mortar joint
 Internal plaster
 Double Glazing

Inner skin of blockwork
 Cavity Insulation
 Sand and Cement external render
 Window frame
 Concrete head

10 marks for labels and 10 for drawings.

[10]

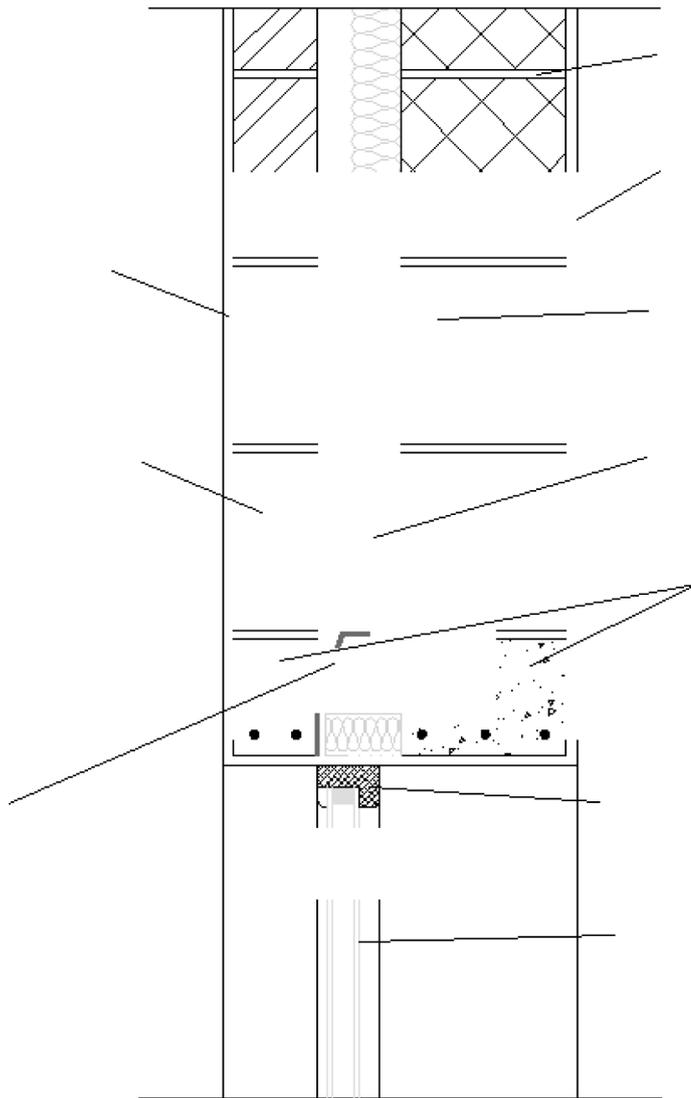


Fig. 7

[10]

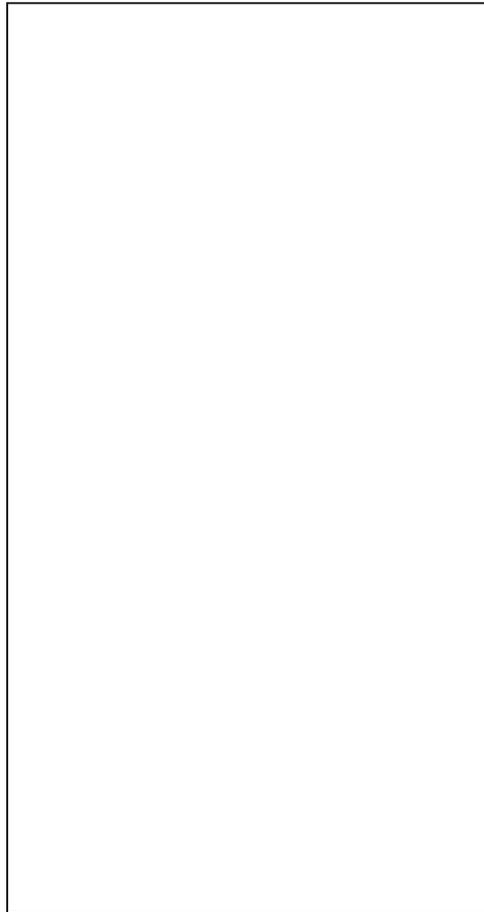
Examiner Only	
Marks	Remark

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(Questions continue overleaf)

11 (a) Draw a timber door in the box below which would fulfil the following specifications:

- The top half of the door is glazed
- Two solid timber panels in the bottom half
- Show the position of three hinges

[5]



(b) Add the following labels to your drawing:

- Timber stiles
- Top Rail
- Muntin
- Bottom Rail
- Glass

[5]

THIS IS THE END OF THE QUESTION PAPER

Examiner Only	
Marks	Remark

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