



General Certificate of Secondary Education  
2025

Centre Number

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Candidate Number

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# Construction and the Built Environment

Unit 1



Introduction to the Built Environment

[GCN11]

\*GCN11\*

**WEDNESDAY 4 JUNE, AFTERNOON**

## TIME

1 hour.

## INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.

**You must answer the questions in the spaces provided.**

**Do not write outside the boxed area on each page or on blank pages.**

Complete in black ink only. **Do not write with a gel pen.**

Answer **all six** questions.

## INFORMATION FOR CANDIDATES

The total mark for this paper is 80.

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 question **1(f)**.



1 The image shown in **Fig. 1** is typical of a specific type of structural form.



**Fig. 1**

(a) Name the type of structural form shown in **Fig. 1**.

\_\_\_\_\_ [2]

(b) List **four** examples of the type of building occupancy this type of structure would be used for.

1. \_\_\_\_\_ [1]

2. \_\_\_\_\_ [1]

3. \_\_\_\_\_ [1]

4. \_\_\_\_\_ [1]



(c) Why is this type of structure suitable for the types of building occupancies you have listed in (b)?

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[2]

(d) Explain **two** methods of how this structure will be joined together.

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[4]







2 (a) List **four** of the main resources required to undertake any construction project.

1. \_\_\_\_\_ [1]

2. \_\_\_\_\_ [1]

3. \_\_\_\_\_ [1]

4. \_\_\_\_\_ [1]

(b) Choose **two** of the resources you have listed above and explain each, stating an example.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [3]

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [3]





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**(Questions continue overleaf)**

14559

**[Turn over**



\*16GCN1107\*

- 3 Domestic accommodation requires many different types of buildings, which must be specifically designed to meet the client's brief.

Identify the types of residential accommodation shown in this question and briefly state the distinguishing characteristics of each.



Fig. 2

- (a) State the type of dwellings shown in Fig. 2.

\_\_\_\_\_ [1]

- (b) Describe the distinguishing characteristics of this type of building.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [2]





**Fig. 3**

**(c)** State the type of dwelling shown in **Fig. 3**.

\_\_\_\_\_ [1]

**(d)** Describe the distinguishing characteristics of this type of building.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ [2]

**[Turn over**





**Fig. 4**

**(e)** State the type of dwellings shown in **Fig. 4**.

\_\_\_\_\_ [1]

**(f)** Describe the distinguishing characteristics of this type of building.

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_ [2]





**Fig. 5**

**(g)** State the type of dwellings shown in **Fig. 5**.

\_\_\_\_\_ [1]

**(h)** Describe the distinguishing characteristics of this type of building.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [2]

**[Turn over**



4 The Royal Institute of British Architect's Plan of Work (RIBA POW) simplifies the complete construction cycle into eight stages.

(a) State the **year** of the latest version.

\_\_\_\_\_ [1]

(b) List the **eight stages** of this cycle.

0. \_\_\_\_\_ [1]

1. \_\_\_\_\_ [1]

2. \_\_\_\_\_ [1]

3. \_\_\_\_\_ [1]

4. \_\_\_\_\_ [1]

5. \_\_\_\_\_ [1]

6. \_\_\_\_\_ [1]

7. \_\_\_\_\_ [1]





**5 (a) List four craft occupations.**

- 1. \_\_\_\_\_ [1]
- 2. \_\_\_\_\_ [1]
- 3. \_\_\_\_\_ [1]
- 4. \_\_\_\_\_ [1]

**(b) Describe the roles for the following occupations in the design team.**

- 1. Quantity Surveyor  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [2]

- 2. Building Services Engineer  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [2]





6 There are four main categories of safety sign that can be found on a construction site. **State** the meaning of each of the following and **describe** its appearance.

(a) Mandatory Signs

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[3]

(b) Safe Condition Signs

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[3]

(c) Warning Signs

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[3]

**THIS IS THE END OF THE QUESTION PAPER**



**DO NOT WRITE ON THIS PAGE**

<b>For Examiner's use only</b>	
<b>Question Number</b>	<b>Marks</b>
1	
2	
3	
4	
5	
6	

<b>Total Marks</b>	
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**Examiner Number**

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