



**6720-546 JUNE 2018**

**Level 3 Advanced Technical Extended Diploma in Constructing the Built Environment (Construction) (720)**

Level 3 Constructing the Built Environment – Theory exam

If provided, stick your candidate barcode label here.

**Friday 22 June 2018**  
**09:30 – 11:30**

Candidate name (first, last)

First

Last

Candidate enrolment number

Date of birth (DDMMYYYY)

Gender (M/F)

Assessment date (DDMMYYYY)

Centre number

Candidate signature and declaration\*

• If any additional answer sheets are used, enter the additional number of pages in this box.

- Please ensure that you **staple** additional answer sheets to the **back** of this answer booklet, clearly labelling them with your full name, enrolment number, centre number and qualification number in BLOCK CAPITALS.
- All candidates need to use a **black/blue pen**. **Do not** use a pencil or gel pen.
- If provided with source documents, these documents **will not** be returned to City & Guilds, and will be shredded. **Do not** write on the source documents.

**\*I declare that I had no prior knowledge of the questions in this assessment and that I will not divulge to any person any information about the questions.**

**You should have the following for this examination**

- a pen with blue or black ink

**General instructions**

**This question paper is the property of City and Guilds of London and should be returned after the examination.**

- This examination contains **16** questions. Answer **all** questions.
  - Answer the questions in the space provided.
  - The marks for **each** question are shown in brackets.
- Show **all** calculations.



1 Describe the purpose of the guidance provided by New Rules of Measurement 1 (NRM1). (2 marks)

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2 State **two** advantages of using an electronic spreadsheet format for producing elemental work sections when working up an unpriced Bill of Quantities. (2 marks)

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3 Describe how the following terms are used in tendering and estimating. (2 marks)

a) Estimating.

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b) Preliminaries. (2 marks)

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4 Explain why a client might choose to use a two-stage tendering process for an urgent design and build project. (5 marks)

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5 Explain how the following factors are taken into account in the superficial area method of estimating for the cost of a building.

a) The dimensions required to determine gross floor area.

(2 marks)

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b) Stairs, internal walls, lift shafts and columns.

(1 mark)

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c) Special items such as raised areas, swimming pools and internal sports areas.

(2 marks)

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6 State **two** defects associated with structural movement of a building.

(2 marks)

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7 Describe why it is important to have a planned maintenance programme.

(3 marks)

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11 Explain the implications of poor workmanship on the long-term condition of a building. (2 marks)

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12 Name **two** historical events that prompted significant development and change to Building Regulations. (2 marks)

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13 State **three** categories listed in the current Building Act that the Building Regulations are designed to satisfy. (3 marks)

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14 Explain why Approved Document L will have increasing importance in the future. (4 marks)

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