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**7908-501 MARCH 2022**

**Level 3 Advanced Technical Diploma in Plastering (450)**

Level 3 Plastering – Theory exam (Solid)

If provided, stick your candidate barcode label here.

**Friday 25 March 2022**  
**09:30 – 12:00**

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 additional answer sheets are used, enter the additional number of pages in this box. 
- Before taking the examination, **all candidates** must check that their barcode label is in the appropriate box. Incorrectly placed barcodes may cause delays in the marking process.
- Please ensure that you staple additional answer sheets to the **back** of this answer booklet, clearly labelling these 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, unless otherwise instructed.
- 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 examination 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
- a non-programmable calculator

**General instructions**

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

- This examination contains **27** questions. Answer **all** questions.
- **Section A** – consist of **10** multiple choice questions, each carrying 1 mark.
  - Indicate your response (a, b, c and d) in the space provided.
- **Section B** – consist of **17** structured/short answer questions
  - Answer the questions in the space provided.
  - The marks for **each** question are shown in brackets.
- Cross through any work you do not want to be marked.



**Section A**

1 What type of insulation is used between rafters in a loft conversion? (1 mark)

- a) Standard polystyrene.
- b) Loose vermiculite.
- c) Phenolic board.
- d) Fibre wool.

Response: \_\_\_\_\_

2 Which type of heating system is the **least** environmentally friendly? (1 mark)

- a) Open solid fuel fire.
- b) Oil system boiler.
- c) Combination gas boiler.
- d) Ground source heat pump.

Response: \_\_\_\_\_

3 Who is responsible for calculating and costing areas for plastering in a building? (1 mark)

- a) Junior architect.
- b) Trade supervisor.
- c) Quantity surveyor.
- d) Structural engineer.

Response: \_\_\_\_\_

4 Why are method statements produced? (1 mark)

- a) To outline work schedules.
- b) To identify safe means of works.
- c) To assess causes of risks.
- d) To highlight evacuation areas.

Response: \_\_\_\_\_

5 Which document is completed and submitted in tendering for proposed construction work? (1 mark)

- a) Time sheet.
- b) Job sheet.
- c) Bill of quantities.
- d) Progress chart.

Response: \_\_\_\_\_

6 What material is used to reduce and prevent efflorescence? (1 mark)

- a) Powder based waterproofer.
- b) Liquid plasticiser.
- c) Hydraulic lime.
- d) Sulphate resisting cement.

Response: \_\_\_\_\_

7 What is a concrete background with a honey comb surface classed as? (1 mark)

- a) Low suction and limited key.
- b) Controlled suction and no key.
- c) Even suction and porous.
- d) High suction and dense.

Response: \_\_\_\_\_

8 What term is used when plaster is specified for a particular background? (1 mark)

- a) Adaptable.
- b) Recommended.
- c) Compatible.
- d) Workability.

Response: \_\_\_\_\_

9 What type of float would be used when keying a backing coat to receive a finishing coat plaster? (1 mark)

- a) Wooden.
- b) Devil.
- c) Plain.
- d) Sponge.

Response: \_\_\_\_\_

10 What can cause a plastered surface to sag when skimming on plasterboard? (1 mark)

- a) The background suction is insufficient.
- b) The key in the background is uneven.
- c) The bagged plaster used is out-of-date.
- d) The plaster applied is too thick.

Response: \_\_\_\_\_

**Section B**

11 Identify **two** key stages that need to be completed for a proposed project **prior** to applying for full planning permission. (2 marks)

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12 State the **two** key facts outlined in an Energy Performance Certificate (EPC). (2 marks)

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13 a) Name **three** different types of concrete foundations. (3 marks)

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b) State the **most** suitable type of foundation when constructing the following types of buildings;  
i) high rise  
ii) conservatory. (2 marks)

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14 Explain how to work out the correct amount of bagged plaster for plastering a wall. (4 marks)

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15 Why is it important to comply with a specification when tendering for internal plastering work? (3 marks)

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16 Why are time contingencies incorporated within a schedule of a work programme? (2 marks)

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17 Name **two** internal backgrounds that require either dubbing out or pricking up, before applying an internal scratch coat. (2 marks)

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18 State **two** defects that would occur if gypsum plaster was to be applied on moisture affected backgrounds. (2 marks)

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19 List **two** pieces of important information found in the manufacturer's instructions when using gypsum plasters. (2 marks)

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20 List **two** liquid additives that can enhance a sand and cement mix. (2 marks)

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21 List **three** defects that can occur in a finish plastered surface. (3 marks)

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22 Give an example of what each of the tools shown below would be used for when carrying out plastering work. (1 mark)

a)



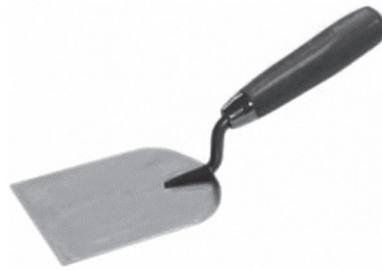
Source: [www.crowndecoratingcentres.co.uk](http://www.crowndecoratingcentres.co.uk)

**Figure 1**

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b)



Source: [www.esska-tech.co.uk](http://www.esska-tech.co.uk)

**Figure 2**

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c)



Source: [www.toolandfix.com](http://www.toolandfix.com)

**Figure 3**

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23 Explain the reasons why a SBR slurry would be used on internal plastering work. (3 marks)

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24 Explain the advantages of using pre-blended gypsum-based plasters over traditional sand and cement plaster when plastering internally. (6 marks)

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25 A house has been upgraded and the plasterwork on the walls has been chased out by an electrician and rewired.

Explain how to 'make good' the electrical chases using a two-coat gypsum plaster. (5 marks)

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26 Describe how to reinforce and prepare a weak composite background to receive a scratch coat. (2 marks)

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