

Section A

- 1 What type of information does Building Information Modelling (BIM) provide a contractor with?
- a) Risk assessments.
 - b) Procurement costs.
 - c) Method statement.
 - d) Three-dimensional layout.

Response: _____

- 2 Who is responsible for the implementation of the CDM regulations on a construction project?
- a) Sub contractor.
 - b) Principal contractor.
 - c) Quantity surveyor.
 - d) Site manager.

Response: _____

- 3 Which external authorised personnel would check that construction work conforms to regulations?
- a) Health and safety officer.
 - b) Principal contractor.
 - c) Building control officer.
 - d) Specialist contractor.

Response: _____

- 4 Which document is used to plan the duration of a project?
- a) Risk assessment.
 - b) Job specification.
 - c) COSHH sheet.
 - d) Gantt chart.

Response: _____

- 5 What is the **main** advantage of using steel reinforcement in concrete?
- a) Increases tensile strength.
 - b) Reduces setting time.
 - c) Increases compressive strength.
 - d) Acts as formwork.

Response: _____

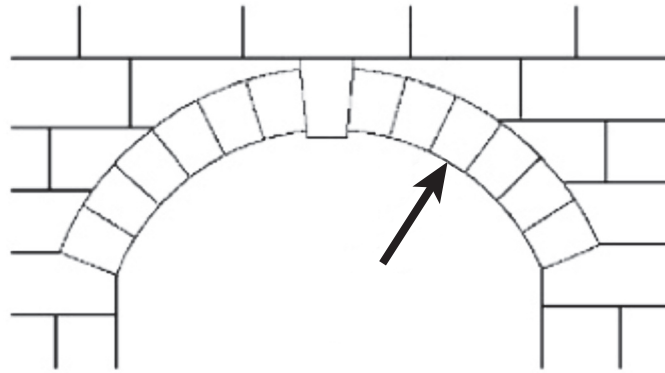


Figure 1

- 6 What is the terminology given to the indicated section shown in Figure 1?
- Springing point.
 - Intrados.
 - Striking point.
 - Extrados.

Response: _____

- 7 What can be used to construct an arch **without** using temporary support?
- Prop.
 - Lintel.
 - Brace.
 - Strut.

Response: _____



Figure 2

- 8 What is the decorative feature shown in Figure 2?
- Dentil course.
 - Plinth course.
 - Ramped course.
 - Oversailing course.

Response: _____

- 9 What would be the **best** material to strengthen a hollow brick pier?
- a) Wall ties.
 - b) Mortar.
 - c) Concrete.
 - d) Brick rubble.

Response: _____

- 10 What is the **minimum** distance a superimposed hearth should be extended from the face of the breast?
- a) 200 mm.
 - b) 300 mm.
 - c) 400 mm.
 - d) 500 mm.

Response: _____

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Section B

- 11 Identify **three** inspections the Building Control Officer carries out during the construction of the substructure of a building. (3 marks)

- 12 Describe the differences between a method statement and a permit to work, giving an example when **each** would be used. (5 marks)

- 13 Identify **four** defects that could be caused by water leaking from a defective down pipe. (4 marks)

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17 Give **two** examples of where **each** of the following would be used.

a) Dentil course.

(2 marks)

b) Oversailing course.

(2 marks)

c) Soldier course.

(2 marks)

d) Tumbling in.

(2 marks)

e) Plinth course.

(2 marks)

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18 a) Name **two** types of bricks that can be used to form an obtuse quoin on a boundary wall. (2 marks)

b) Identify **two** examples of where obtuse angles are used in brickwork. (2 marks)

19 a) Identify **two** hazards associated with working on chimney breasts, flues and stacks. (2 marks)

b) Explain how to reduce the risks associated with **each** hazard, identified in 19 a). (4 marks)

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