



7905-501 APRIL 2017 Level 3 Advanced Technical Diploma in Bricklaying (450)

Level 3 Bricklaying – Theory exam

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General instructions This question paper is the property of City and Guilds of London and should be sturned after the examination.

- This examination contains 20 questions. Answer all questions.
 Section A—consists of 10 multiple choice questions, each carrying 1 mark.
 - India et your response (a, b, c or d) in the space provided.
- Section B consists of 10 structured/short answer questions.
- Manager the questions in the space provided.
- The marks for each question are shown in brackets.

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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: _		

- 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:	

- 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.

Resi	ponse:	•	

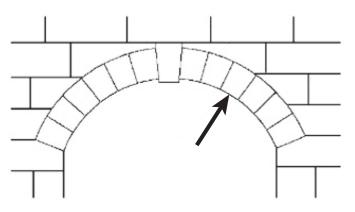


Figure 1

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

Response:

- 7 What can be used to construct an arch without using temporary support?
 - a) Prop.
 - b) Lintel.
 - c) Brace.
 - d) Strut.

Response:



Figure 2

- 8 What is the decorative feature shown in Figure 2?
 - a) Dentil course.
 - b) Plinth course.
 - c) Ramped course.
 - d) Oversailing course.

Response:

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

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RASI	oonse: .		
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- 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)

g (6 marks)
(1 mark)

6

(6 marks)

۱۷ <i>۰</i> (و	e two examples of where each of the following would be used. Dentil course.	(2 mar
)	Oversailing course.	(2 mai
	Soldier course.	(2 ma
	Tumbling in.	(2 ma
	Plinth course.	(2 ma

18 a	a)	Name two types of bricks that can be used to form an obtuse quoin on a boundary wall.	(2 marks
b	0)	Identify two examples of where obtuse angles are used in brickwork.	(2 marks
19 a	a)	Identify two hazards associated with working on chimney breasts, flues and stacks.	(2 marks)
t	0)	Explain how to reduce the risks associated with each hazard, identified in 19 a).	(4 marks



Discuss how to carry out the task.	
	(12 m