





## 6720-502 JUNE 2018 Level 2 Technical Award in Constructing and Maintaining the Built Environment

Level 2 – Constructing and Maintaining the Built Environment – Theory exam

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If provided, stick your candid barcode label here.	Friday 22 Ju date 09:30 – 11:3	
Candidate name (first, last)		
First		
Last		
Candidate enrolment number  Assessment date (DDMMYYYY)	Date of birth (DDMMYYYY)  Centre number	Gender (M/F)  Candidate signature and declaration*
<ul> <li>If any additional answer sheets a</li> <li>Please ensure that you staple a booklet, clearly labelling them w and qualification number in BLO</li> <li>All candidates need to use a bla</li> <li>If provided with source documer and will be shredded. Do not w</li> <li>*I declare that I had no prior k and that I will not divulge to a</li> </ul>	idditional answer sheets to the rith your full name, enrolment r CK CAPITALS.  Ick/blue pen. Do not use a points, these documents will not rite on the source documents anowledge of the questions.	e <b>back</b> of this answer number, centre number encil or gel pen. be returned to City & Guilds, s. s in this assessment

## 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.

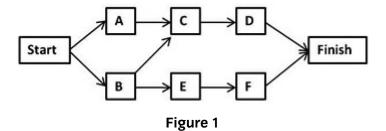
- This examination contains **20** questions. Answer **all** questions.
- Answer the questions in the space provided.
- The marks for each question are shown in brackets.
- Show **all** calculations.

1 Identify the area of the construction industry in which bridges and roads are designed and constructed.

(1 mark)

2 Describe the purpose of the planning diagram shown in Figure 1.

(2 marks)



3 Explain why clients' representatives should attend formal site meetings with the contractor. (3 marks)

4 Name the type of drainage that uses land drains. (1 mark)

Sta	te <b>two</b> benefits of using a cavity wall, rather than a solid wall construction method.	(2 mark
a)	Describe what is meant by 'fixtures and fittings'.	(2 mark
b)	Give <b>one</b> example of a i) fixture ii) fitting.	(2 marks
a)	State <b>two</b> material properties that make masonry suitable for domestic construction.	(2 marks
b)	State <b>one</b> performance in use of expanded polystyrene.	(1 mark



8 The diagrams in Figure 2 show two common forms of domestic ground floor construction.

Explain why a designer might specify a suspended timber ground floor, rather than the more common solid concrete ground floor, for a modern domestic property.

(4 marks)

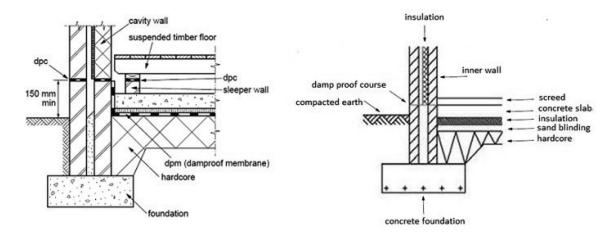
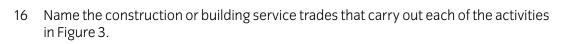


Figure 2

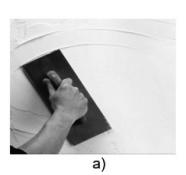
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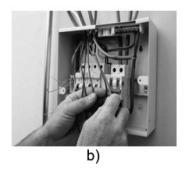
In terms of application and maintenance, compare the following internal wall finishes for a bathroom.  Gypsum plaster.	(4 marks
Ceramic wall tiles.	
It has been calculated that it will take exactly 1740 bricks to repair a damaged wall.	
Why should the buyer order 2000 bricks?	(2 mark
A building has been badly damaged by water over the years and requires refurbishment.	
Identify <b>three</b> tasks that could be undertaken to make the property more waterproof.	(3 mark

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12	Nar	me <b>one</b> part of the superstructure that <b>must</b> be inspected in a condition survey.	(1 mark)
13	a)	Name <b>one</b> building service that <b>must</b> be carried out by a competent and qualified person.	(1 mark)
	b)	List <b>one</b> check that a competent and qualified person is required to carry out.	(1 mark)
14	fror tipp	excavator removes 64 m <sup>3</sup> of soil from a trench. The soil bulked by 35% on removal m the ground. The bulk density of the soil is 1800 kg/m <sup>3</sup> . The soil was loaded on to per-trucks with a capacity of 20 tonnes.	
		termine how many trucks were needed.	
		n <b>must</b> show all your working out.	(3 marks)
4.5			
15		lain why a client may request a condition survey when purchasing a domestic perty.	(3 marks)



(3 marks)





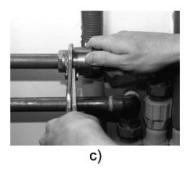


Figure 3

		rigule 5	
	a)		
	b)		
17		scribe the purpose of barrier cream for personal protection when working on uilding site.	(2 marks)
18	a)	What does 'CDM' stand for in 'CDM Regulations'?	(1 mark)
	b)	State <b>two</b> of the <b>main</b> purposes of the CDM Regulations.	(2 marks)

19	Explain how the job of a site carpenter differs from that of a bench joiner.	(5 marks
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A detached house is being extended to provide a porch at the front, an integral garage with access from the rear on the ground floor and two bedrooms above the garage. Figure 4 below shows the building at a point during the construction stage.



Figure 4

Discuss the factors that should have been considered before commencing construction.	(9 marks)
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9

