

## 6720-505 SAMPLE PAPER

# Level 2 Technical Award in Constructing and Maintaining the Built Environment

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

### 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) С D A Finish Start в Ε Figure 1 3 Explain three reasons why clients' representatives should attend formal site meetings with the contractor. (3 marks) (1 mark) 4 Name the type of drainage that uses land drains.

╋

╋

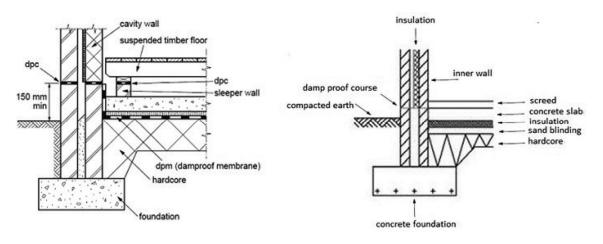
5	Sta	te <b>two</b> benefits of using a cavity wall, rather than a solid wall construction met	thod.	(2 marks)	
6	a)	Describe what is meant by 'fixtures and fittings'.		(2 marks)	
	b)	Give <b>one</b> example of a i) fixture ii) fitting.		(2 marks)	
		") nung.			
7	a)	State <b>two</b> material properties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

3

8 The diagrams in Figure 2 show two common forms of domestic groundfloor 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)





ł	6720-505		
	9	<ul> <li>In terms of <b>application</b> and <b>maintenance</b>, compare the following internal wall finis for a bathroom.</li> <li>Gypsum plaster.</li> <li>Ceramic wall tiles.</li> </ul>	hes (4 marks)
	10	It has been calculated that it will take exactly 1740 bricks to repair a damaged wall.	
		Why should the buyer order 2000 bricks?	(2 marks)
	11	A building has been badly damaged by water over the years and requires refurbishme	ent.
		Identify <b>three</b> tasks that could be undertaken to make the property more waterproof.	(3 marks)

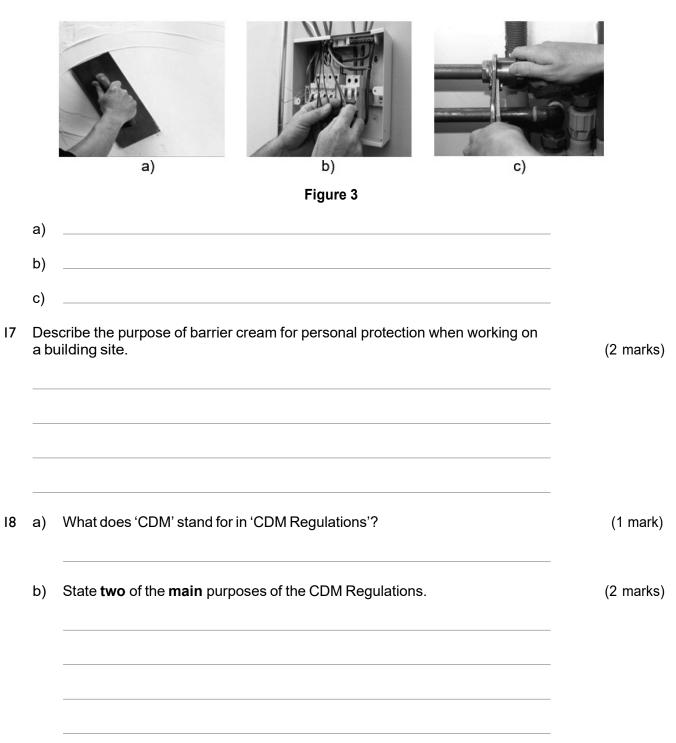
÷

6720	)-505		Sample
12	Nan	ne <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)	State <b>one</b> check that a competent and qualified person is required to carry out.	(1 mark
14	rem	excavator removes 64 m <sup>3</sup> of soil from a trench. The soil bulked by 35% on ovalfrom the ground. The bulk density of the soil is 1800 kg/m <sup>3</sup> . The soil was led on totipper-trucks with a capacity of 20 tonnes.	
	Det	ermine how many trucks were needed.	
	You	must show all your working out.	(3 marks
15		plain why a client may request a condition survey when purchasing a domestic perty.	(3 marks

╋

16 Name the construction or building service trades that carry out each of the activities in Figure 3.

(3 marks)



19 Explain how the job of a site carpenter differs from that of a bench joiner.

(5 marks)

20 A detached house is being extended to provide a utility room on the ground floor with two bedrooms above. The existing pitched roof has been continued over the extension. The extension is to be accessed from within the property on both floors. Figure 4 below shows the building at a point during the construction stage.



Figure 4

Discuss the factors that need to be considered before undertaking such a project for it to be a success.

(9 marks)

6720-502	22 June 2018		
	_		
	_		
	_		
	-		
	_		
	_		
	_		
	_		
	_		
	_		
	_		
	_		
	_		
	_		
	_		
	_		
	_		
	_		

+

÷