

Version 1.0 - November 2017

Please note this is not a complete sample theory exam, this document consists of sample questions from across the test specification.

andidate	Name	Date	DD/MM/YY
	uildings.		(2 mark
Explain wh	y the following are requirements of a cold water su	pply entering a bu	iilding.
The service level.	pipe must enter the building at a minimum depth	of 750 mm below	ground (2 mark
The service	e pipe must enter the building through the wall but	not below the	(2 mar
State two	penefits of off-site prefabrication in modern method	ds of construction	. (2 marl
	State two f domestic b Explain why The service level. The service foundation.	State two forms of foundation that can be used in the construdomestic buildings. Explain why the following are requirements of a cold water su The service pipe must enter the building at a minimum depth level. The service pipe must enter the building through the wall but foundation.	State two forms of foundation that can be used in the construction of low-rise domestic buildings. Explain why the following are requirements of a cold water supply entering a buton the service pipe must enter the building at a minimum depth of 750 mm below level. The service pipe must enter the building through the wall but not below the

4		Explain the physical and chemical properties of steel that make it an appropriate structural material for use in medium-rise industrial buildings.	(6 marks)
5		State two items of information that should be collected during a site investigation.	(2 marks)
6		State three hazards associated with deep excavations.	(3 marks)
7		Failure to comply with health and safety legislation in the workplace can have corporate and human consequences.	
	a)	State three corporate consequences.	(3 marks)
	b)	State two human consequences.	(2 marks)

8		Define the term 'infrastructure requirements' as used in architectural design and planning.	(2 marks)
9		Explain how the construction of a new housing estate on a flood plain can increase the risk of flooding in other areas.	(4 marks)
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10		A company has purchased land upon which a large petrol station once stood. Their intention is to construct a training centre that will specialise in delivering practical construction crafts training for trades such as brick laying. The training centre does not require gas services, however will require all other building services. The workshop in the training centre, must be at least 6 m high and the structure of the building is to be steel framed.	
		The company also wishes to build a new home for the resident site service manager. The house is to have all normal building services provided, be single storey and be of traditional masonry construction.	
	a)	Explain the sustainable techniques a designer may wish to incorporate into the house.	(6 marks)
