



5220-522 FEBRUARY 2018 Level 2 Technical Certificate in Digital Technologies

Level 2 Digital Technologies - Theory Exam (1)

If provided, stick your candi barcode label here.	idate 09:30 – 12	27 February 2018 2:00
Candidate name (first, last)		
First		
Last		
Candidate enrolment number	Date of birth (DDMMYYYY)	Gender (M/F)
Assessment date (DDMMYYYY)	Centre number	Candidate signature and declaration*
• If any additional answer sheets	are used, enter the additional	number of pages in this box.

- Please ensure that you **staple** additional answer sheets to the **back** of this answer booklet, clearly labelling them with your full name, enrolment number, centre number and qualification number in BLOCK CAPITALS.
- All candidates need to use a **black/blue pen. Do not** use a pencil or gel pen.
- If provided with source documents, these documents **will not** be returned to City & Guilds, and will be shredded. **Do not** write on the source documents.

*I declare that I had no prior knowledge of the questions in this assessment and that I will not divulge to any person any information about the questions.

General instructions

- The marks for questions are shown in brackets.
- Answer **all** questions.
- Answer the questions in the spaces provided. Answers written in margins or on blank pages will **not** be marked.
- Cross through any work you do not want to be marked.
- Write all your working out and answers in this booklet.

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1	a)	Identify three components of a computer system.	(3 marks)
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	b)	Explain one function performed by each of the components identified in Question 1a).	(6 marks)
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Explain **three** key functions of Operating Systems. (6 marks) 2 Convert the following Decimal numbers to 8 bit Binary numbers. 3 55₁₀ ٠ (2 marks) 116₁₀ •

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Identify two personal risks and one organisational risk that are associated with digital engagement.	(3 ma
For each of the three risks identified in Question 4a), describe how the risks can	
be mitigated.	(6 ma

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5	a)	Identify two principles of the UK Data Protection Act 1998.	(2 marks
	b)	For one of the principles identified in Question 5a), explain how it impacts on the use of IT.	(2 marks
6	a)	Identify two user interactions that can compromise security with a business computer system.	(2 marks
	b)	For each of the actions identified in Question 6a), explain what an organisation can do to try and prevent them from happening.	(4 mark

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in an IT system.	rity methods that can be implemented to mitigate risks	(2 marks)
be used to secure an IT sys	ethods identified in Question 7a), explain how they can tem.	(4 marks)

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8	a)	Identify two hardware backup devices.	(2 mai
	b)	Explain one disadvantage encountered in everyday use for each of the backup devices identified in Question 8a).	(4 ma
9	Des	cribe two types of 'restore from backup'.	(4 ma

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10	a)	Identify four methods that can be used to gather information from users in order to provide IT support.	(4 marks)
	b)	Describe one advantage of using each of the three methods identified in Question 10a) within a large organisation.	(6 marks)
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Discuss the considerations that must be taken in to account when planning and preparing to implement a back-up strategy for a small engineering business.	(9 mar

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Discuss the considerations that must be taken in to account when planning and producing user support documentation.	(9 mar
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