



Please check the examination details bel	ow before enter	ing your candid	ate informatio	n
Candidate surname		Other names		
Centre Number	Learner ID			
LL-				
T Level Technical Qualification in D	igital Produ	iction, Desi	gn and	
Development (Level 3)				
Time 2 hours 30 minutes	Paper reference	19	9537	
Core PAPER 2: The Business Environment				
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Instructions

- Use **black** ink or a ball-point pen.
- Fill in the boxes at the top of this page with your name, centre number and Pearson learner ID.
- There are two sections in this question paper. Answer all questions in Section A and Section B.
- Answer the questions in the spaces provided
 - there may be more space than you need.

Information

- The total mark for this paper is 100.
- The marks for **each** question are shown in brackets
 - use this as a guide to how much time to spend on each question.

Advice

- Read each question carefully before you start to answer it.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ▶



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SECTION A

Answer ALL questions. Write your answers in the spaces provided.

1	(a) Explain what is meant by a business that provides a product.	(2)
	(b) Name two layers of the 4 layer TCP/IP model.	(2)
1		
2		
_	(Total for Question 1 = 4	marks)
2	(a) Name two items of information that a company would wish to keep private and confidential.	(2)
1		(2)
		(2)
1	and confidential.	

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(4)
Il for Question 2 = 6 marks)
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3	(a) Describe how a device may be connected to the internet of things (IoT).	(4)
	(b) Explain two characteristics of Random Access Memory (RAM).	(4)
1		
2		

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(c) Describe how data may be transformed into information.	(2)
(Total for Question 3 = 10	marks)

A cyber security company is developing a new anti-virus tool.
Explain two reasons why the company would use virtual environments to develop and test this new tool.
(Total for Question 4 = 4 marks)

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5	SuperShoes designs and creates leisure footwear.
	Explain two ways <i>SuperShoes</i> could use digital tools in the design of new products.
1	
2	
	(Total for Question 5 = 4 marks)

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6 Exp	plain one potential risk to an organisation of the	use of digital technology.
		(Total for Question 6 = 3 marks)
		(lotal for Question 0 – 3 marks)

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7 Evaluate the use of Data Analysis Tools and their use in business.		



(Total for Question 7 = 9 marks)
(Total for Question 7 = 9 marks) TOTAL FOR SECTION A = 40 MARKS

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SECTION B

Answer ALL questions. Write your answers in the spaces provided.

8 A supermarket wants to upgrade its digital systems.

It wishes to move away from a desktop application-based system to a system that uses a cloud environment.

(a) Explain **two** ways that this new system will be able to support the key areas of organisation in the supermarket.

(4)

2	
(b) Describe how a pilot changeover strategy could be used.	(3)
	(3)



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(c) Explain one way that the new cloud-based system could meet user needs.	(2)
(d) Discuss how Data as a Service (DaaS) could be used by the supermarket.	(6)
(Total for Question 8 = 15	marks)



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			١
9	A leisure centre wishes to install a new digitised management system.		
	Functions of the new system include storing member details and allowing members to pay for fitness classes.		
	(a) The change was triggered by a wish to add new features to improve the customer experience.		
	Describe two other factors that could trigger change.		ı
		(4)	
1			ı
Ι			
2			

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(b) Explain two potential benefits to leisure centre stakeholders that this new sy could provide.	vstem (4)
1	. ,
]	
2	
(c) Explain why it is important to ensure that this new system is resilient.	
(c) Explain why lets important to ensure that this new system is resilient.	(3)



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(d)	valuate the risk of human	threats to the new leisure centre s	system.
Your evaluation should include:			
	possible threats to the s	system	
	the severity of each thre		
	the likelihood of each th		
		n threat would be of most concern	to the
	leisure centre.		(9)
			(9)

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(Total for Question 9 = 20 marks)
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	,
10 A retailer is developing a new online shopping system.	
Customers can log into their accounts to search for items and place orders.	
(a) Describe two ways in which data may be generated by the new online	
shopping system.	(4)
	(4)
1	
2	

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b) A conceptual data model has been designed. The model contains these entities	•
Customer.	
• Item.	
Describe how these entities could be linked together.	(2)
	(3)
s) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
c) When a customer searches for an item, the server sends information about the product back to the client as a JSON file.	
Explain why a JSON file is used in this situation.	
	(3)



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d) The new system will use RAID 1.	
Describe how RAID 1 stores data.	(3)
	(5)
(e) The developers of the system wish to use multi-factor authentication metho secure user accounts.	ds to
They must choose between either possession-based systems or biometric systems.	
Evaluate the suitability of using these methods to secure user accounts.	(4.0)
	(12)

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(Total for Question 10 = 25 marks)
(10tal for Question To - 25 marks)
TOTAL FOR SECTION B = 60 MARKS
TOTAL FOR PAPER = 100 MARKS
TOTAL FOR TAIL ER - TOO MARKET



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