



Please check the examination details belo	w before ente	ring your c	andidate inf	ormation
Candidate surname		Other nan	nes	
Centre Number	Learner ID			
LL-				
T Level Technical Qualification in Dip Development (Level 3)	gital Prod	uction, [Design a	nd
Friday 12 May 2023				
Morning (Time: 2 hours 30 minutes)	Paper reference	2	195	37
Core: Examination	1			
PAPER 2: The Business En	vironm	ent		
You do not need any other material	s.			Total Marks

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) Data transfer over a network makes use of communication protocols.

Complete the table to show which layer of the four-layer TCP/IP model performs **each** function.

(2)

Function	Layer
Allows programs being used by the user to access network services.	
Decides which physical path the data should take.	

(b) Give **two** business information tools that can be used to support businesses.

1	1	
2	2	
_		

(Total for Question 1 = 4 marks)

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2	(a)	A digital system is being developed that will be used in doctors' surgeries to aid them in prescribing medicines.	
		Explain two ways that the design of the user interface would take into consideration the characteristics of the end users.	(4)
1			(4)
2			

records can be applied in the new system	(4)
	(Total for Question 2 = 8 marks)

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	xplain one way to ensure that digital systems provide a quality service to me ser needs.	et
		(3)
) F	xplain one factor that influences the performance of a Central Processing	
U	nit (CPU).	
		(3)
••••••		



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(c) Describe how a firewall is used to improve secur	ity. (3)
	(Total for Question 3 = 9 marks)
Explain one way a user could identify a phishing em	
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5	Describe two unforeseen factors that could trigger change in an organisation.
1	
2	
_	(Total for Question 5 = 4 marks)
6	(Total for Question 5 = 4 marks) Explain why a company would want to keep details of unreleased products confidential.
6	
6	
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7	Evaluate the impact of data access permissions on an organisation.	
-	Evaluate the impact of data decess permissions on an organisation.	(9)
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(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 *Golwgda* is a software company that develops video games. It develops games that are run on a variety of hardware platforms including consoles and mobile devices.

One team within *Golwgda* is responsible for the development of a new multiplatform game.

(a) Explain **two** benefits of using virtual environments to develop the game.

(4)

2	



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		(4)
	physical vulnerability to the system <i>Golwga</i>	a uses to
c) Explain one potential develop the game.	physical vulnerability to the system <i>Golwga</i>	a uses to
develop the game.	physical vulnerability to the system <i>Golwga</i>	(2)
develop the game.		(2)

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Discuss the factors that can determine the feasik	
	(6)
	(Total for Question 8 = 16 marks)



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9	A bank is developing a new digital system.	
	This new system will replace an older digital system.	
	It is being prototyped at the bank's software development centre.	
	The security of the data held on this system is critical.	
	(a) One reason the bank might need to introduce this new system is in response to a change in banking regulations.	
	Explain two other reasons why the bank might need to introduce this system	(4)
		(4)
1		
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this new digital s	, 5.00		(3)
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		o manimentain tha muistas	ı ot data
 b) Explain one pote held on this new 	ntial impact to the bank of failing t system.	o maintain the privacy	or data
held on this new	system.	o maintain the privacy	(2)
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held on this new	system.	o maintain the privacy	
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held on this new	system.	o maintain the privacy	
held on this new	system.		(2)
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this new system.	(9)

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(Total for Question 9 = 18 marks)



10	AM is an estate agency that rents flats to students across the UK.	
	AM sends a member of staff to visit each new flat, to gather details.	
	Information about the flats are then entered onto AM's website for students to view.	
	Many landlords own more than one flat for rent, but students can only rent one flat.	
	Students who wish to rent a flat must sign a lease, which allows them to live in the flat for 12 months.	
	(a) AM issues each member of staff with a smartphone to gather information about the flats.	
	Explain how two items of input hardware found on smartphones could be used by <i>AM</i> when its staff visit a new flat.	(4)
		(4)
1		
2		

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Describe how the entities within	
	(3)
) Explain one item of qualitative	e and one item of quantitative data that AM
would store about each flat.	
	(4)
tative	
titative	



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Explain how AM could use data held about students to perform targeted marketing.	
	(3)
Add wishes to install a pour local Area Network (LAN) in one of its branches	
AM wishes to install a new Local Area Network (LAN) in one of its branches. This branch is in an old building that has thick solid concrete walls. This branch is the permanent base for five members of staff but is often used by staff from other branches when they are in that area.	
This branch is in an old building that has thick solid concrete walls. This branch is the permanent base for five members of staff but is often used by staff from other branches when they are in that area. Evaluate the suitability of installing either a wired or a wireless local area network	
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(Total for Question 10 = 26 marks)
(10tal for Question 10 – 20 mains)
TOTAL FOR SECTION B = 60 MARKS
TOTAL FOR PAPER = 100 MARKS

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