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School code

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School name

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Given name/s

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Family name

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Attach your
barcode ID label here

Book

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of

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books used

External assessment 2021

Question and response book

Digital Solutions

Time allowed

- Perusal time — 15 minutes
- Working time — 120 minutes

General instructions

- Answer all questions in this question and response book.
- Planning paper will not be marked.

Section 1 (10 marks)

- 10 multiple choice questions

Section 2 (36 marks)

- 3 short response questions

Section 3 (26 marks)

- 1 extended response question



DO NOT WRITE ON THIS PAGE
THIS PAGE WILL NOT BE MARKED

Section 1

Instructions

- Choose the best answer for Questions 1–10.
- This section has 10 questions and is worth 10 marks.
- Use a 2B pencil to fill in the A, B, C or D answer bubble completely.
- If you change your mind or make a mistake, use an eraser to remove your response and fill in the new answer bubble completely.

	A	B	C	D
Example:	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	A	B	C	D
1.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Do not write outside this box.

Section 2

Instructions

- Write using black or blue pen.
 - If you need more space for a response, use the additional pages at the back of this book.
 - On the additional pages, write the question number you are responding to.
 - Cancel any incorrect response by ruling a single diagonal line through your work.
 - Write the page number of your alternative/additional response, i.e. See page ...
 - If you do not do this, your original response will be marked.
 - This section has three questions and is worth 36 marks.
-

QUESTION 11 (13 marks)

Business owners use an online platform to sell products. The essential features of the platform are listed.

Platform:

- allows customers and business owners to register and log in
- has four data stores (customer data, products, shopping cart and orders)
- processes order payments
- confirms orders with customers and business owners after successful payment.

Customers:

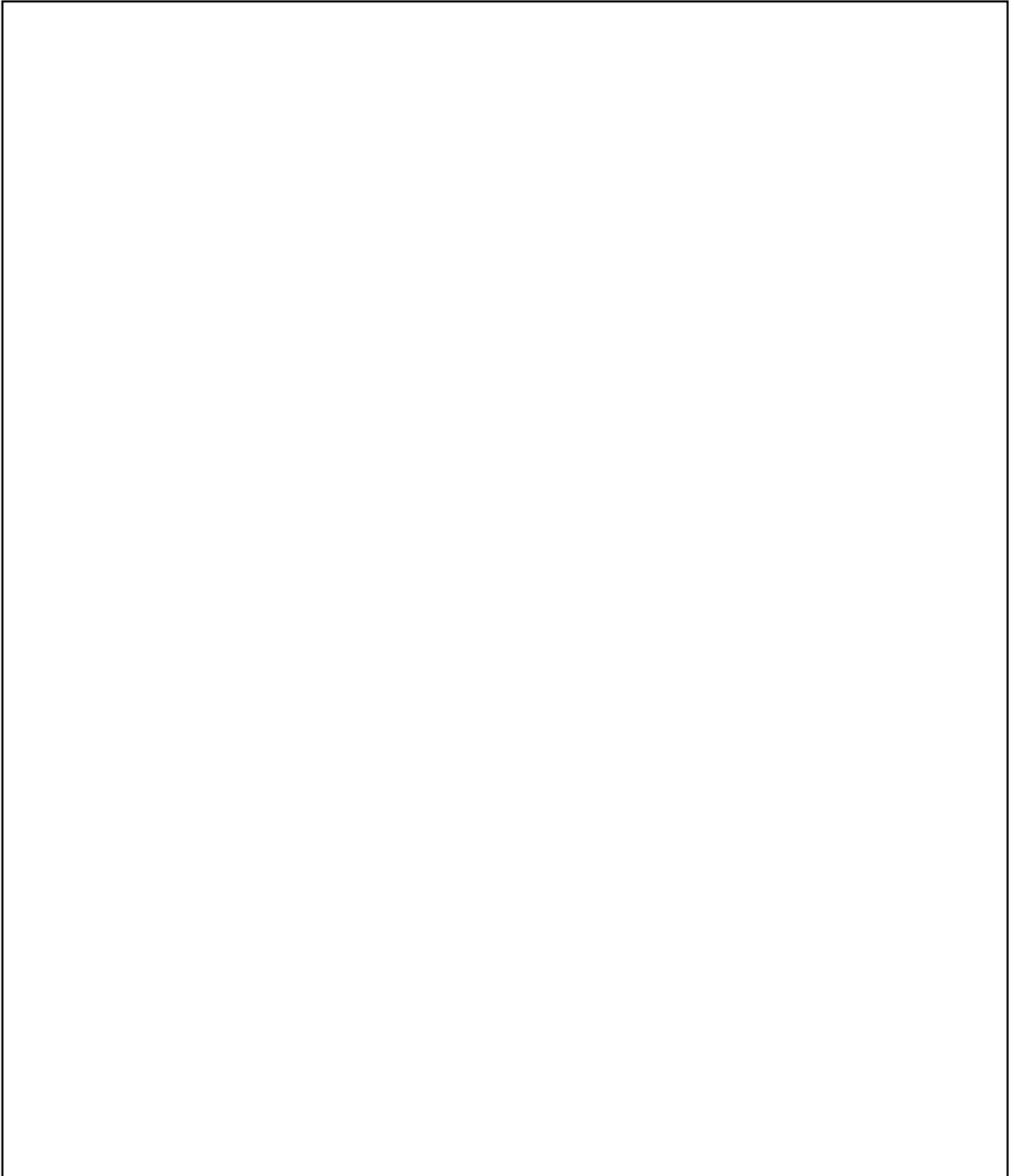
- register an account
- select products that appear in the shopping cart
- may continue shopping after viewing the shopping cart.

Business owners:

- access confirmed orders
- access customer account details
- update products and prices.

Do not write outside this box.

Symbolise data flow for this system using a diagram that includes all essential features listed.



Note: If you make a mistake in the diagram, cancel it by ruling a single diagonal line through your work and use the additional response space at the back of this question and response book.

Do not write outside this box.

b) Identify a relevant Australian Privacy Principle and explain an ethical consideration when using app data.

[2 marks]

Australian Privacy Principle: _____

Ethical consideration: _____

Do not write outside this box.

c) You discover that the app uses a Caesar cipher to encrypt data, allowing you to intercept a password in transit. Perform a desk check for five iterations to decrypt the password 'KYIWW'.

[2 marks]

Do not write outside this box.

c) Using Stimulus 1 and 2 in the stimulus book, make three justified recommendations, based on survey feedback, to improve data security of the match manager system. *[6 marks]*

Recommendation and justification 1: _____

Do not write outside this box.

d) Symbolise four changes to the login view that address all useability issues identified in Stimulus 2. Justify how useability principles have informed your changes.

[8 marks]



Note: If you make a mistake in the diagram, cancel it by ruling a single diagonal line through your work and use the additional response space at the back of this question and response book.

Do not write outside this box.

ADDITIONAL PAGE FOR STUDENT RESPONSES

Write the question number you are responding to.

Do not write outside this box.

ADDITIONAL PAGE FOR STUDENT RESPONSES

Write the question number you are responding to.

Do not write outside this box.



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