

OXFORD CAMBRIDGE AND RSA EXAMINATIONS
GCSE
B063/02
INFORMATION AND COMMUNICATION
TECHNOLOGY
ICT in Context
THURSDAY 25 MAY 2017: Afternoon
DURATION: 1 hour
plus your additional time allowance
MODIFIED ENLARGED 24pt

| | | | |
|-------------------------------|--|------------------------------|--|
| Candidate forename | | Candidate surname | |
| Centre number | | | |
| | | Candidate number | |
| | | | |

Candidates answer on the Question Paper.

OCR SUPPLIED MATERIALS:
Clean-copy pre-release material
(B063/02/PRE inserted)

OTHER MATERIALS REQUIRED:
None

READ INSTRUCTIONS OVERLEAF



INSTRUCTIONS TO CANDIDATES

Write your name, centre number and candidate number in the boxes on the first page. Please write clearly and in capital letters.

Use black ink. HB pencil may be used for graphs and diagrams only.

Answer ALL the questions.

Read each question carefully. Make sure you know what you have to do before starting your answer.

Write your answer to each question in the space provided. Additional paper may be used if necessary but you must clearly show your candidate number, centre number and question number(s).

INFORMATION FOR CANDIDATES

The number of marks is given in brackets [] at the end of each question or part question.

The total number of marks for this paper is 60.

Quality of Written Communication will be assessed in questions marked with an asterisk (*).

Any blank pages are indicated.

BLANK PAGE

Answer ALL the questions.

1 Progress Delivery Company (PDC) uses handheld devices to manage the tracking and delivery of parcels.

Draw a line from each description on the left to join it to the MOST APPROPRIATE component of a handheld device on the right. [4]

| DESCRIPTION | COMPONENT |
|--|-----------------|
| converts signals from satellites to work out physical location | GPS receiver |
| captures the signature of a customer | thermal printer |
| reads tracking information from parcels | touch screen |
| produces a receipt for a customer's parcel | barcode scanner |

2 During the development of the new smartphone app for PDC the systems lifecycle will be used.

(a) Identify TWO stages of the systems lifecycle and for each describe the processes that would occur.

1 _____

Processes _____

2 _____

Processes _____

[6]

(b) Explain ONE disadvantage to PDC if the systems lifecycle is not used.

[2]

3 PDC has a website which customers can use to make bookings and track parcels.

(a) Customers must register before making a booking on the PDC website.

Describe ONE action customers can take to protect their personal information when using the PDC website.

[2]

(b) Information is encrypted before it is sent between PDC and the customer.

What is meant by the term encryption?

[2]

(c) Explain ONE advantage of parcel tracking information being available on the PDC website.

[2]

- 4 Information is sent wirelessly from the handheld devices to the PDC database.
- (a) Describe TWO items of hardware that are needed to send and receive information wirelessly.

1 _____

2 _____

[4]

(b) Explain TWO advantages and ONE disadvantage of using wireless technologies to send information.

Advantage 1 _____

Advantage 2 _____

Disadvantage _____

[6]

5* Progress Delivery Company would like to use NFC technologies for parcel tracking and delivery.

Justify the use of NFC technologies for parcel tracking and delivery by PDC. [8]

[illegible]

6 PDC would like to update the parcel tracking page of its website to include the following features:

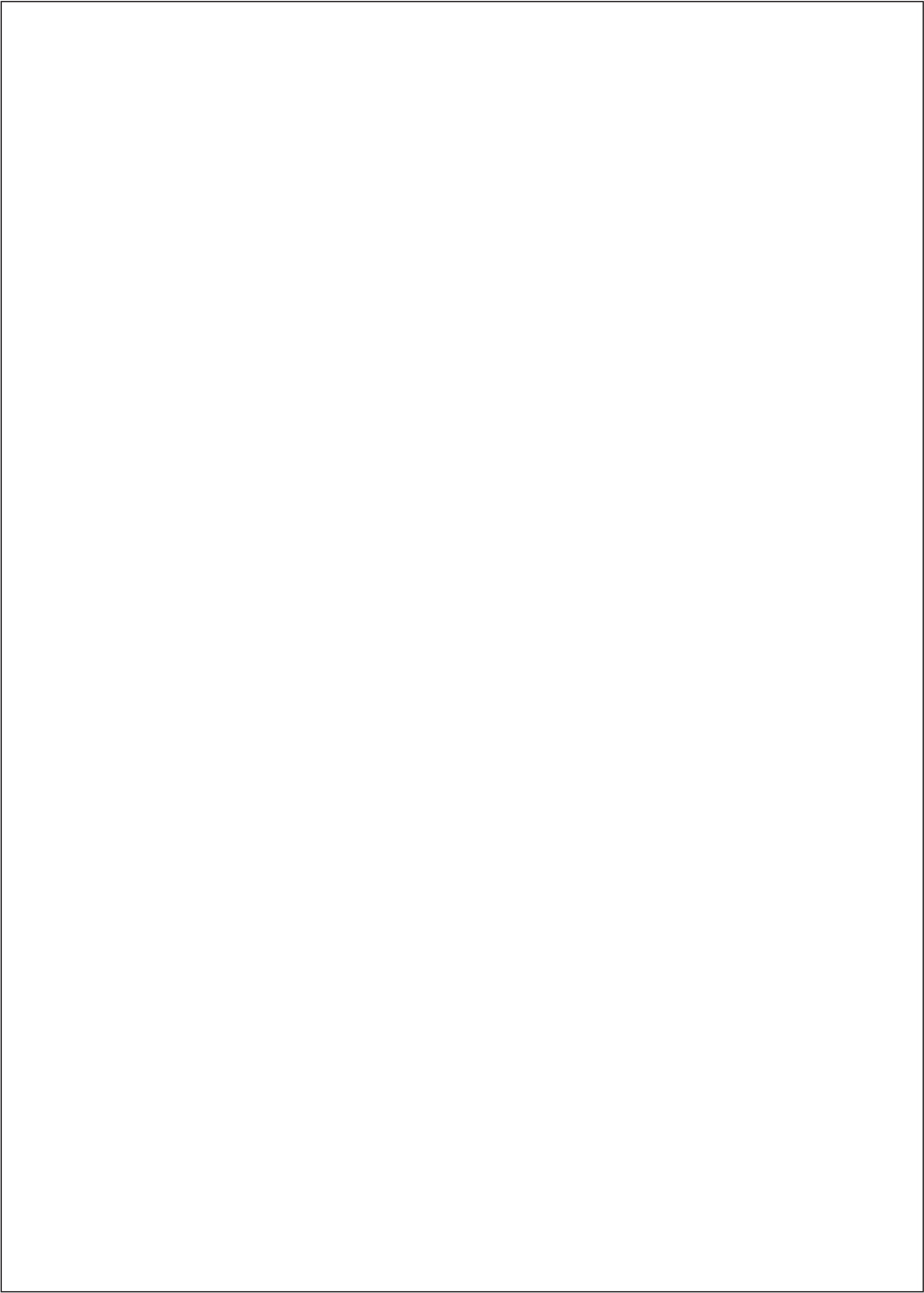
a map showing the current location of the customer's parcel;

an area showing the estimated delivery date and time;

the ability to change the delivery address;

the ability to change the delivery date.

Use the space opposite to sketch a suitable design for the parcel tracking page. [6]



- 7

Companies can send parcel orders to PDC using Electronic Document Interchange (EDI).
- (a)

Identify FOUR items of information that would be sent using EDI.
- 1
- 2
- 3
- 4
- [4]
- (b)

Explain TWO reasons why companies would send orders using EDI.
- 1
-
-
-
- 2
-
-
-
- [4]

(c) Explain why it is important that companies and PDC use the same EDI format.

[2]

8* PDC must ensure that it complies with the Data Protection Act.

Explain the steps PDC should take to ensure it complies with the Data Protection Act. [8]

[illegible]

END OF QUESTION PAPER

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