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Oxford Cambridge and RSA

**Thursday 25 May 2017 – Afternoon****GCSE INFORMATION AND COMMUNICATION TECHNOLOGY****B063/02** ICT in Context

Candidates answer on the Question Paper.

**OCR supplied materials:**

- Clean-copy pre-release material (B063/02/PRE inserted)

**Other materials required:**

None

**Duration:** 1 hourCandidate  
forenameCandidate  
surname

Centre number

Candidate number

**INSTRUCTIONS TO CANDIDATES**

- The Insert will be found inside this document.
- Write your name, centre number and candidate number in the boxes above. 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).
- Do **not** write in the barcodes.

**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 (\*).
- This document consists of **12** pages. Any blank pages are indicated.

2

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 to join it to the **most appropriate** component of a handheld device.

**Description**

converts signals from satellites to  
work out physical location

captures the signature of a customer

reads tracking information from parcels

produces a receipt for a customer's  
parcel

**Component**

GPS receiver

thermal printer

touch screen

barcode scanner

**[4]**

3

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]

5

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]

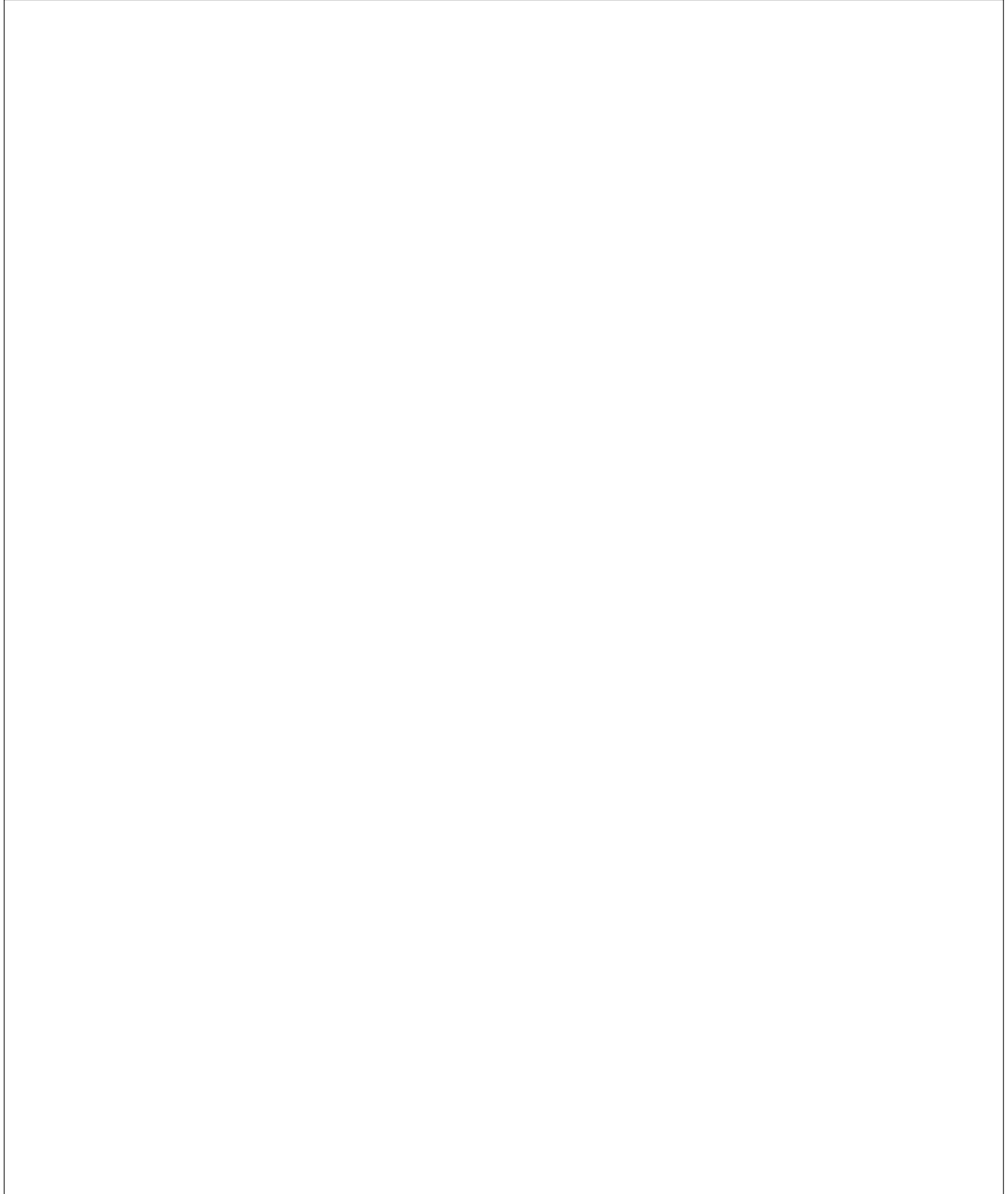
7

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 below to sketch a suitable design for the parcel tracking page.

[6]

A large empty rectangular box with a thin black border, intended for a student to sketch a design for a parcel tracking page. The box occupies the majority of the page below the question text.

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]

**END OF QUESTION PAPER**

10  
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