Centre No.						Paper Reference	Surname		Initial(s)
Candidate No.						**I T 1 0 1 / 0 1**	Signature		

Edexcel

Principal Learning

Information Technology

Level 1

Unit 1: Technology in Organisations

Tuesday 19 May 2009 – Afternoon

Time: 45 minutes

Question Number	Leave Blank
1	
2	
3	
4	
5	
Total	

Materials required for examination	**Items included with question papers**
Nil	Nil

Instructions to Candidates

In the boxes above, write your centre number, candidate number, your surname, initial(s) and signature.
Check that you have the correct question paper.
Answer ALL the questions.
Do not use pencil. Use blue or black ink.
All questions must be answered with a cross in a box (⊠).
If you change your mind about an answer, put a line through the box (⊠) and then mark your new answer with a cross (⊠).

Information for Candidates

The marks for individual questions and the parts of questions are shown in round brackets: e.g. **(2)**.
There are 5 questions in this question paper. The total mark for this paper is 45.
There are 12 pages in this question paper. Any blank pages are indicated.

Advice to Candidates

You are advised to read the questions carefully.

H 3 5 7 6 6 A 0 1 1 2

Turn over

edexcel
advancing learning, changing lives

Answer ALL questions with a cross in a box (☒). If you change your mind about an answer, put a line through the box (☒) and then mark your new answer with a cross (☒).

1. (a) EPOS systems are used in supermarkets and fast food restaurants.
   Here is a list of the components of an EPOS system.

   Put a cross in the correct box to show what each component is used for.

Component	Input	Output	Input and Output	Neither
Keyboard	☒	☒	☒	☒
Touch screen	☒	☒	☒	☒
Barcode scanner	☒	☒	☒	☒
Chip and Pin reader	☒	☒	☒	☒

   (4)

   (b) 'Better Burgers' is a chain of fast food restaurants. It uses EPOS systems in all of its stores.
   One reason they use EPOS systems is to reduce:

the time taken to prepare the food.	☒
the number of staff.	☒
checkout operator errors.	☒
computer storage space.	☒

   (1)

   (c) **One** reason 'Better Burgers' use EPOS data is to:

make sure they have enough stock.	☒
keep the restaurants open 24 / 7.	☒
employ younger staff.	☒
improve the quality of the burgers.	☒

   (1)

(d) Most items in a supermarket have a barcode.
     Which **one** of these statements about barcodes is correct?

The price of the item is stored in the barcode.	☒
Barcodes reduce theft from supermarkets.	☒
The barcode includes the date of manufacture.	☒
Scanners are used to read barcodes.	☒

(1)

(e) When a barcode is read the recorded stock level is reduced.
     Which **one** of these is used to store the stock level?

EPOS terminal.	☒
Supermarket's database.	☒
Barcode.	☒
Manufacturer's database.	☒

(1)

(f) EFTPOS systems are also used in supermarkets.
     One use of the system is to:

transfer money between customer and supermarket bank accounts.	☒
allow customers to pay for purchases with cash.	☒
transfer money between supermarket and manufacturer bank accounts.	☒
allow customers to collect loyalty points.	☒

(1)   **Q1**

(Total 9 marks)

2. (a) Number plate recognition systems identify vehicles.
One use of this system is for:

identifying learner drivers.	☒
congestion charging.	☒
checking the safety of a vehicle.	☒
checking the age of a vehicle.	☒

(1)

(b) Put a cross in the correct box to complete each sentence below.

A roadside camera records the   owner   ☒ of a vehicle.
                                              registration number ☒

This information is then checked against a database to find the driver ☒.
                                                                        owner ☒

The date and time ☒ will also need to be recorded.
       road conditions ☒

The position of the camera is known so that the vehicle's location ☒ can be identified.
                                                                    speed   ☒

(4)

(c) Traffic control systems are used to help traffic to flow freely.

Which device would be used to detect a car approaching a set of traffic lights?

Switch.	☒
Barrier.	☒
Scanner.	☒
Sensor.	☒

(1)

(d) Route finders are used to plan journeys.
One item of data that **must** be entered is the:

destination.	☒
start date of the journey.	☒
start time of the journey.	☒
type of vehicle.	☒

(1)

(e) Route finders provide details of journeys.
Which **one** of these would be included in this information?

Weather conditions.	☒
Road numbers.	☒
Traffic accidents.	☒
Flooded roads.	☒

(1)

(f) Many businesses use route finders to plan deliveries.
One benefit to a business of using route finders is to improve:

communication with drivers.	☒
delivery times.	☒
communication with customers.	☒
road safety.	☒

(1) **Q2**

(Total 9 marks)

3. (a) 'Flora's Flowers' is a shop selling flower arrangements.
It has decided to sell the flower arrangements over the internet.
The shop has a PC that is used for general office tasks.

Put a cross next to **four** components from the list that 'Flora's Flowers' will need to use the internet.

Printer.	☒
Scanner.	☒
Internet Service Provider.	☒
Broadband connection.	☒
Chip and pin reader.	☒
Modem.	☒
Web browser.	☒
Application software.	☒

(4)

(b) **One** benefit to 'Flora's Flowers' of selling the flower arrangements over the internet will be to:

attract customers from a wider area.	☒
reduce the number of staff required to create arrangements.	☒
reduce delivery costs.	☒
improve the quality of the arrangements.	☒

(1)

(c) Customers will be able to order flowers and pay for them online.
Which **one** of these is a suitable method of payment when buying goods online?

Loyalty card.	☒
Membership card.	☒
Club card.	☒
Debit card.	☒

(1)

H35766A0612
H 3 5 7 6 6 A 0 6 1 2

(d) 'Flora's Flowers' will confirm online orders by email.
What device will the customer use to produce a hard copy of the email?

Monitor.	☒
Printer.	☒
Plotter.	☒
Speaker.	☒

(1)

(e) Customers with queries relating to deliveries can contact 'Flora's Flowers'.
What piece of information will be **most** useful in identifying a particular query?

Card type.	☒
Order number.	☒
Arrangement type.	☒
Telephone number.	☒

(1)

(f) When using the internet it is important to protect the data on your computer from unauthorised access.
Identify the software that should be used to do this.

Virus checker.	☒
Firewall.	☒
Spell checker.	☒
Communication software.	☒

(1)   **Q3**

(Total 9 marks)

4. (a) 'Gym for Life' is a chain of fitness studios. Membership cards are given to all members. Electronic data is read from the card when the member enters the studio. Where on the card is this data stored?

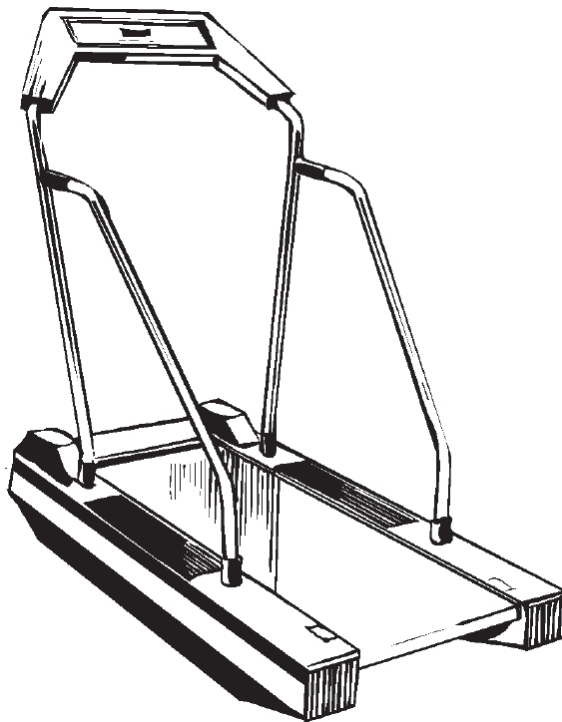| Magnetic stripe.	☒
Signature strip.	☒
Printed number.	☒
Printed name.	☒

(1)

(b) One facility offered to members is monitoring of their performance.
Put a cross in the correct box to complete each sentence below.

A member using the treadmill places their hands on a sensor ☒ which detects their heartbeat.   scanner ☒

The reading is sent to the   laptop   ☒ and the hardware ☒ analyses the data.
                                                processor ☒   software ☒

The information is then displayed on a screen ☒ for the member to view.
                                                                        sensor ☒

(4)

(c) Some items of gym equipment include TV screens. This equipment is very expensive. Select **one** reason why the gym provides this expensive equipment.

To attract new members.	☒
To improve the performance of existing members.	☒
To provide entertainment for staff.	☒
To reduce noise levels in the gym.	☒

(1)

(d) 'Gym for Life' currently produces a paper-based newsletter for members. Which **one** of these would be a benefit to 'Gym for Life' of producing the newsletter online rather than in hard copy?

Easier to update information for staff.	☒
Reduced printing costs for members.	☒
Make newsletters more accurate.	☒
Reduced printing costs for 'Gym for Life'.	☒

(1)

(e) The PCs in the 'Gym for Life' offices are linked to a central computer. The name given to a central computer is a:

network.	☒
server.	☒
PC.	☒
mobile device.	☒

(1)

(f) Sometimes classes are cancelled at short notice and 'Gym for Life' need to inform the class members.
Which would be the most effective method of contacting a **group** of members quickly?

Text message.	☒
Land line phone call.	☒
Mobile phone call.	☒
Letter.	☒

(1)

Q4

(Total 9 marks)

5. (a) ATMs are used to withdraw cash from banks.
    Put a cross in the correct box to complete each sentence below.

A customer wanting to withdraw cash inserts a debit ☒ card into the ATM.
                                             an identity ☒

The electronic data is read from the account number ☒ on the card.
                                         chip   ☒

The customer enters their PIN ☒ using a monitor ☒.
                          name ☒   keypad ☒

(4)

(b) Convenient access to cash is one benefit of using an ATM.
    Which **one** of these is another benefit of using an ATM?

Statements can be printed.	☒
Cash can be paid in 24/7.	☒
Bills can be paid.	☒
Account security can be improved.	☒

(1)

(c) ATMs are convenient for customers and banks.
    Which **one** of these is a benefit to a bank?

Higher bank charges can be introduced.	☒
Fewer staff are needed to fill machines.	☒
Fewer branches are needed.	☒
Higher rates can be charged for withdrawing cash.	☒

(1)

H 3 5 7 6 6 A 0 1 1 1 2

(d) Most banks now provide online banking facilities for customers.
One benefit to the bank is:

access to customers over wider areas.	☒
a reduction in staff travelling time.	☒
improved security for customer data.	☒
improvement in communication between branches.	☒

(1)

(e) Emailing facilities are often built into a bank's website.
Which type of software is needed to send email?

Application software.	☒
Communication software.	☒
Operating system software.	☒
Security software.	☒

(1)

(f) Why do banks provide these emailing facilities?

To increase types of accounts offered to customers.	☒
To increase interest rates offered to customers.	☒
To improve communication with customers.	☒
To improve communication with other banks.	☒

(1) | Q5

(Total 9 marks)

TOTAL FOR PAPER: 45 MARKS

END

H35766A01212
H 3 5 7 6 6 A 0 1 2 1 2