

Write your name here	
Surname	Other names
Edexcel	Centre Number
Principal Learning	Candidate Number
<h1>Information Technology</h1> <h2>Paper 1</h2> <h3>Unit 1: Technology in Organisations</h3>	
Wednesday 13 January 2010 – Afternoon Time: 45 minutes	Paper Reference IT101/01
You do not need any other materials.	Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.

Information

- The total mark for this paper is 45.
- The marks for **each** question are shown in brackets
– use this as a guide as to how much time to spend on each question.

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

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Turn over ►

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Answer ALL questions.

Some 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 ☒.

1 (a) EPOS systems are used in supermarkets.

Barcodes are scanned as part of the EPOS system.

Which **one** of the following statements is correct?

(1)

A	Barcodes reduce theft from supermarkets.	<input type="checkbox"/>
B	Barcodes are input using OCR scanners.	<input type="checkbox"/>
C	Barcodes reduce data entry errors.	<input type="checkbox"/>
D	Barcodes are always input manually.	<input type="checkbox"/>

(b) Identify **one** piece of information that is contained in a barcode.

(1)

A	Checkout number.	<input type="checkbox"/>
B	Sell by date.	<input type="checkbox"/>
C	Item price.	<input type="checkbox"/>
D	Item code.	<input type="checkbox"/>

(c) These are the steps used in an EPOS system.
They are not in the correct order.

Put the steps in the correct order by putting a number from 1 to 5 next to each step.

Step 1 has been done for you.

(4)

The price is sent to the till.	
The barcode is scanned.	1
An itemised receipt is printed.	
The item price is found.	
The barcode number is sent to the database.	



(d) Many supermarkets give customers loyalty cards.

One device used to collect electronic data from a loyalty card is a:

(1)

A	magnetic stripe reader.	<input type="checkbox"/>
B	sensor.	<input type="checkbox"/>
C	optical mark reader.	<input type="checkbox"/>
D	touch screen.	<input type="checkbox"/>

(e) **One** advantage to the customer of joining a loyalty card scheme is that:

(1)

A	checkout queues will be shorter.	<input type="checkbox"/>
B	points can be used to buy items.	<input type="checkbox"/>
C	item prices are increased.	<input type="checkbox"/>
D	items can be scanned quickly.	<input type="checkbox"/>

(f) **One** reason for a supermarket to introduce a loyalty card scheme is to:

(1)

A	monitor checkout queues.	<input type="checkbox"/>
B	reduce the number of staff.	<input type="checkbox"/>
C	reduce prices.	<input type="checkbox"/>
D	increase sales.	<input type="checkbox"/>

Total for Question 1 = 9 marks



2 Eezzee-Tunes is a chain of music stores offering a wide choice of music and other multimedia products.

(a) Music in the stores is sold on CDs. CDs are a type of:

(1)

A	input device.	<input type="checkbox"/>
B	storage media.	<input type="checkbox"/>
C	output device.	<input type="checkbox"/>
D	software.	<input type="checkbox"/>

(b) Eezzee-Tunes has decided to set up a website which will allow customers to buy music online.

One reason for setting up the website is to:

(1)

A	increase prices.	<input type="checkbox"/>
B	respond to changing legislation.	<input type="checkbox"/>
C	improve staff performance.	<input type="checkbox"/>
D	access new markets.	<input type="checkbox"/>

(c) Customers using the website can get regular updates from Eezzee-Tunes via email.

Which **one** of the following is necessary to send an email?

(1)

A	Communication software.	<input type="checkbox"/>
B	Anti-virus software.	<input type="checkbox"/>
C	Application software.	<input type="checkbox"/>
D	Security software.	<input type="checkbox"/>



(d) Which **one** of the following is an acceptable means of paying for music bought online?

(1)

A	National Insurance card.	<input type="checkbox"/>
B	Cash.	<input type="checkbox"/>
C	Debit card.	<input type="checkbox"/>
D	Identity card.	<input type="checkbox"/>

(e) There are laws governing the copying of downloaded music.

The laws were set up to protect the rights of the:

(1)

A	music owner.	<input type="checkbox"/>
B	music seller.	<input type="checkbox"/>
C	music buyer.	<input type="checkbox"/>
D	music copier.	<input type="checkbox"/>

(f) Internet auction sites are used by many people to buy and sell goods.

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

The first one has been done for you.

(4)

Internet auction sites give buyers access to global local markets.

Online Offline auction sites allow people to buy and sell goods over the internet.

To log on registered users must provide their bank details password .

Buyers can view photographs of items for sale which have been uploaded downloaded to the auction site.

Buyers can use a secure payment cash back system to pay for their goods.



(g) Organisations may sell their products using internet auction sites.

One reason they choose to use this method of selling goods is to:

(1)

A	increase prices.	<input type="checkbox"/>
B	increase sales.	<input type="checkbox"/>
C	increase the costs of holding stocks of goods.	<input type="checkbox"/>
D	increase the charges for sending goods.	<input type="checkbox"/>

Total for Question 2 = 10 marks



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3 Car manufacturers use technology in many different ways.

(a) Computer Aided Design (CAD) is used by car manufacturers when designing new cars.

Which **four** of the following statements are advantages of using CAD software?

(4)

A	Accurate scaled designs can be produced.	<input type="checkbox"/>
B	Designs can be used to calculate sales.	<input type="checkbox"/>
C	Manufacturing time will be reduced.	<input type="checkbox"/>
D	No skill is needed to produce the designs.	<input type="checkbox"/>
E	Mistakes can be corrected easily.	<input type="checkbox"/>
F	Manufacturing costs will be reduced.	<input type="checkbox"/>
G	Designs can be viewed from different angles.	<input type="checkbox"/>
H	Multiple copies of the designs can be produced easily.	<input type="checkbox"/>

(b) Which device would be used to produce a hard copy of the CAD designs?

(1)

A	Digital camera.	<input type="checkbox"/>
B	USB stick.	<input type="checkbox"/>
C	Printer.	<input type="checkbox"/>
D	Sensor.	<input type="checkbox"/>



(c) Car manufacturers use Computer Aided Manufacturing (CAM) when producing their cars.

One reason for using CAM is that it:

(1)

A	reduces industrial pollution.	<input type="checkbox"/>
B	is used to carry out repetitive tasks.	<input type="checkbox"/>
C	does not need monitoring.	<input type="checkbox"/>
D	is cheap to buy the equipment.	<input type="checkbox"/>

(d) Robots are used as part of CAM systems.

Which **one** of the following statements is correct?

(1)

A	Robots must be programmed to carry out tasks.	<input type="checkbox"/>
B	Robots will respond instantly to unusual situations.	<input type="checkbox"/>
C	Robots can think for themselves.	<input type="checkbox"/>
D	Robots do not cost anything to run.	<input type="checkbox"/>

Total for Question 3 = 7 marks



4 Most banks now have online banking facilities for customers.

(a) The **four** most likely reasons for introducing online banking are to:

(4)

A	increase charges to customers.	<input type="checkbox"/>
B	access customers over a wider area.	<input type="checkbox"/>
C	reduce staff travelling time.	<input type="checkbox"/>
D	improve working conditions for staff.	<input type="checkbox"/>
E	increase revenue.	<input type="checkbox"/>
F	respond to customer demand.	<input type="checkbox"/>
G	increase staff wages.	<input type="checkbox"/>
H	reduce the number of staff.	<input type="checkbox"/>

(b) Customers are attracted to online banking as they do not need to leave home.

One other benefit to customers is that online banking:

(1)

A	allows 24 hour access to cash.	<input type="checkbox"/>
B	reduces the threat of fraud.	<input type="checkbox"/>
C	allows 24 hour access to their account.	<input type="checkbox"/>
D	reduces the number of bills to be paid.	<input type="checkbox"/>



(c) Customers need a password to access their online account.

Which **one** of the following would give the most secure password?

(1)

A	Letters and numbers.	<input type="checkbox"/>
B	Customer name.	<input type="checkbox"/>
C	Letters only.	<input type="checkbox"/>
D	Numbers only.	<input type="checkbox"/>

(d) ATMs are used by individuals to withdraw cash from their bank accounts.

One benefit to a bank of installing ATMs is to reduce the:

(1)

A	staff needed to answer queries.	<input type="checkbox"/>
B	number of branches.	<input type="checkbox"/>
C	charges for withdrawing cash.	<input type="checkbox"/>
D	charges for paying in cash.	<input type="checkbox"/>

(e) In order to withdraw cash from an ATM a customer must have a:

(1)

A	debit card and password.	<input type="checkbox"/>
B	pre-payment card and PIN.	<input type="checkbox"/>
C	loyalty card and password.	<input type="checkbox"/>
D	debit card and PIN.	<input type="checkbox"/>



(f) The information read from a customer's card is checked against the bank's database.

The database is stored in:

(1)

A	an ATM.	<input type="checkbox"/>
B	a portable device.	<input type="checkbox"/>
C	a mainframe computer.	<input type="checkbox"/>
D	an operating system.	<input type="checkbox"/>

Total for Question 4 = 9 marks



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5 Window World sells double glazed windows.

Sales staff visit customers to take window measurements.
Window World provides laptop computers with mobile internet access for the sales staff so that they can send measurements to head office.

(a) The main reason for providing the laptop computers is to improve communication between the:

(1)

A	sales staff and home.	<input type="checkbox"/>
B	customer and sales staff.	<input type="checkbox"/>
C	sales staff and head office.	<input type="checkbox"/>
D	customer and head office	<input type="checkbox"/>

(b) The sales staff email the measurements to head office from the customer's house.

The email will be sent from the laptop via the internet using a:

(1)

A	wired network.	<input type="checkbox"/>
B	landline telephone.	<input type="checkbox"/>
C	mobile telephone.	<input type="checkbox"/>
D	wireless network.	<input type="checkbox"/>

(c) Head office sends a word processed quotation to the customer.

A word processor is a type of:

(1)

A	communication software.	<input type="checkbox"/>
B	operating system software.	<input type="checkbox"/>
C	application software.	<input type="checkbox"/>
D	security software.	<input type="checkbox"/>



(d) Providing laptops means that sales staff can work from home.

The benefit to Window World is that:

(1)

A	costs will be reduced.	<input checked="" type="checkbox"/>
B	less staff will be needed.	<input checked="" type="checkbox"/>
C	higher prices can be charged.	<input checked="" type="checkbox"/>
D	more staff will be needed.	<input checked="" type="checkbox"/>

(e) Problems can occur when accessing the internet.

The table shows some problems that can occur and possible solutions.

Put a cross in the correct box to match each problem with its solution.

(4)

Problem	Solution			
	Firewall	Internet filter	Email filter	Anti-virus software
Anti-social material	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hacking attempts	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Viruses	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Spam	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



(f) Sales staff use route finders to help them find a customer's house.

Identify **one** item of data that must be entered.

(1)

A	Customer's name.	<input type="checkbox"/>
B	Car registration number.	<input type="checkbox"/>
C	Date of the journey.	<input type="checkbox"/>
D	Customer's postcode.	<input type="checkbox"/>

(g) Which **one** item of information will the route finder **always** give?

(1)

A	Road conditions.	<input type="checkbox"/>
B	Speed limits.	<input type="checkbox"/>
C	Road numbers.	<input type="checkbox"/>
D	Weather conditions.	<input type="checkbox"/>

Total for Question 5 = 10 marks

TOTAL FOR PAPER = 45 MARKS

