

Write your name here

Surname	Other names
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Edexcel
Principal Learning

Centre Number

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Candidate Number

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Information Technology

Level 1

Unit 1: Technology in Organisations

Friday 11 January 2013 – 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 ►

PEARSON

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 ☒.

1 EPOS systems are used in supermarkets.

(a) Barcodes are scanned as part of an EPOS system.

(i) A barcode scanner is:

(1)

A	a storage device	<input type="checkbox"/>
B	an input device	<input type="checkbox"/>
C	a communication device	<input type="checkbox"/>
D	an output device	<input type="checkbox"/>

(ii) **One** advantage of using barcode scanners is that:

(1)

A	customers will spend more	<input type="checkbox"/>
B	goods cannot be stolen	<input type="checkbox"/>
C	higher prices can be charged	<input type="checkbox"/>
D	customers can be served quickly	<input type="checkbox"/>

(b) Many supermarkets operate loyalty card schemes.

(i) **One** reason for providing these schemes is to encourage customers to:

(1)

A	return to the store	<input type="checkbox"/>
B	buy popular brands	<input type="checkbox"/>
C	buy the most expensive goods	<input type="checkbox"/>
D	shop at off-peak hours	<input type="checkbox"/>



(ii) Loyalty card schemes are used to collect customers' purchase data.

Identify the type of software used to store this data.

(1)

A	Operating system software	<input type="checkbox"/>
B	Communication software	<input type="checkbox"/>
C	Application software	<input type="checkbox"/>
D	Security software	<input type="checkbox"/>

(iii) Customers using loyalty card schemes can:

(1)

A	use points to buy goods	<input type="checkbox"/>
B	use priority checkouts	<input type="checkbox"/>
C	save money on all of their shopping	<input type="checkbox"/>
D	get cash back at the checkout	<input type="checkbox"/>

(c) EFTPOS systems are widely used in supermarkets to process payments.

Put a cross in the correct box to complete each of the following sentences.

The first one has been done for you.

(4)

A debit card is inserted into a card reader.
 loyalty card

Electronic data is read from the microchip
 hologram

The customer enters their password
 PIN

If all details are correct the bank approves the transaction.
 supermarket

The payment is transferred to the customer's account.
 supermarket's

(Total for Question 1 = 9 marks)



2 *Clearvue* is a cinema complex.

Customers can buy tickets in a number of ways.

(a) One way of buying tickets is using self-service ticket machines at the cinema.

The list shows some of the components that may be part of a self-service ticket machine.

Put a cross in the correct box to identify whether the component is used for input or output.

The first one has been done for you.

(4)

Component	Output	Input
Monitor	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Speaker	<input type="checkbox"/>	<input type="checkbox"/>
Card reader	<input type="checkbox"/>	<input type="checkbox"/>
Printer	<input type="checkbox"/>	<input type="checkbox"/>
Keyboard	<input type="checkbox"/>	<input type="checkbox"/>

(b) Customers can also buy tickets online.

(i) Which **one** of the following would be necessary to use this facility?

(1)

A	Telephone	<input type="checkbox"/>
B	Internet connection	<input type="checkbox"/>
C	Search engine	<input type="checkbox"/>
D	Printer	<input type="checkbox"/>

(ii) **One** benefit to *Clearvue* of offering this facility is to:

(1)

A	reduce the prices of tickets	<input type="checkbox"/>
B	gain customers from a wider area	<input type="checkbox"/>
C	show a wider range of films	<input type="checkbox"/>
D	increase cinema opening hours	<input type="checkbox"/>



(iii) Customers can collect their pre-booked tickets from the self-service ticket machines.

Which device would allow customers to view and confirm their booking details?

(1)

A	Plotter	<input type="checkbox"/>
B	Scanner	<input type="checkbox"/>
C	Touch screen	<input type="checkbox"/>
D	Sensor	<input type="checkbox"/>

(c) *Clearvue* produces an online monthly newsletter with information about films and actors.

(i) **One** reason for producing the newsletter is to:

(1)

A	train staff in the use of computers	<input type="checkbox"/>
B	improve communication with staff	<input type="checkbox"/>
C	encourage customers to use the internet	<input type="checkbox"/>
D	improve communication with customers	<input type="checkbox"/>

(ii) **One** reason for issuing the newsletter online rather than on paper is to reduce the:

(1)

A	number of staff involved	<input type="checkbox"/>
B	customers' printing costs	<input type="checkbox"/>
C	cinema's printing costs	<input type="checkbox"/>
D	preparation time	<input type="checkbox"/>

(Total for Question 2 = 9 marks)



3 ATMs are a convenient way for individuals to get cash from their bank accounts.

(a) Which **one** of these cards can be used to get money from an ATM?

(1)

A	Top up card	<input type="checkbox"/>
B	Loyalty card	<input type="checkbox"/>
C	Debit card	<input type="checkbox"/>
D	Identity card	<input type="checkbox"/>

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

The database is stored on:

(1)

A	the bank's mainframe computer	<input type="checkbox"/>
B	the ATM	<input type="checkbox"/>
C	a mobile storage device	<input type="checkbox"/>
D	a PC	<input type="checkbox"/>

(c) Many ATMs now offer additional services, such as topping up mobile phones.

One reason for banks offering additional services is to:

(1)

A	respond to staff requests	<input type="checkbox"/>
B	reduce the number of staff	<input type="checkbox"/>
C	increase charges	<input type="checkbox"/>
D	respond to new opportunities	<input type="checkbox"/>



(d) ATMs are convenient for customers but also offer benefits to the banks.

One benefit to the bank is the reduction in:

(1)

A	the number of branches needed	<input type="checkbox"/>
B	data security measures needed	<input type="checkbox"/>
C	bank charges	<input type="checkbox"/>
D	staff needed to fill ATMs	<input type="checkbox"/>

(e) Many banks offer online banking.

One benefit to customers of using online banking is that accounts can be accessed 24/7.

Identify **one** other benefit to the customer.

(1)

A	Fewer bills need to be paid	<input type="checkbox"/>
B	Account details are more secure	<input type="checkbox"/>
C	Banking can be done from home	<input type="checkbox"/>
D	Cash can be withdrawn 24/7	<input type="checkbox"/>

(f) A customer using online banking must set a password.

Which **four** of these provide sensible advice to follow when setting passwords?

(4)

A	Use the same password for all important files	<input type="checkbox"/>
B	Tell a trustworthy person the password	<input type="checkbox"/>
C	Use a mixture of letters and numbers	<input type="checkbox"/>
D	Do not write the password down	<input type="checkbox"/>
E	Make the password easy to work out	<input type="checkbox"/>
F	Use some symbols in the password	<input type="checkbox"/>
G	Change the password regularly	<input type="checkbox"/>
H	Use date of birth as a password	<input type="checkbox"/>

(Total for Question 3 = 9 marks)



4 *Hiking Heaven* sells clothes and hiking equipment.

Customers can order clothes using the *Hiking Heaven* website.

(a) Put a cross in the correct box to complete each of the following sentences.

(4)

The internet gives *Hiking Heaven* access to a larger
smaller customer base.

Internet selling will reduce
increase staff costs and overheads

and increase revenue
losses

Delivery
Sales information can be used to identify other products customers
might like to buy.

(b) Customers ordering goods fill in an online order form.

The data is automatically transferred into the 'SALES' spreadsheet.

(i) Identify **one** advantage to *Hiking Heaven* of automatic data capture.

(1)

A	Less data will be needed	<input checked="" type="checkbox"/>
B	Data will be more accurate	<input checked="" type="checkbox"/>
C	Data will be more secure	<input checked="" type="checkbox"/>
D	More data will be available	<input checked="" type="checkbox"/>



(ii) A spreadsheet is a type of:

(1)

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

(c) When a customer has placed an order with *Hiking Heaven* a confirmation email is sent.

(i) The software used to send an email is a type of:

(1)

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

(ii) Identify the device that is needed to produce a hard copy of the email.

(1)

A	Monitor	<input type="checkbox"/>
B	Scanner	<input type="checkbox"/>
C	Sensor	<input type="checkbox"/>
D	Printer	<input type="checkbox"/>

(d) When using the internet a customer should protect the data on their computer from unauthorised access.

Identify the software that should be used to do this.

(1)

A	Virus checker	<input type="checkbox"/>
B	Email filter	<input type="checkbox"/>
C	Firewall	<input type="checkbox"/>
D	Anti-spam software	<input type="checkbox"/>

(Total for Question 4 = 9 marks)



5 Traffic congestion is a major concern in many cities.

(a) Motorists pay congestion charges for travelling in certain areas.

(i) Cameras record images of vehicles as they enter the area.

A vehicle can be identified by the:

(1)

A	registration number	<input type="checkbox"/>
B	driver	<input type="checkbox"/>
C	owner	<input type="checkbox"/>
D	manufacturer	<input type="checkbox"/>

(ii) Other data is also recorded.

Identify what other data **must** be recorded.

(1)

A	Weather conditions	<input type="checkbox"/>
B	Date and time	<input type="checkbox"/>
C	Vehicle colour	<input type="checkbox"/>
D	Speed	<input type="checkbox"/>

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

(i) Identify **one** input device that is used as part of a traffic control system.

(1)

A	Scanner	<input type="checkbox"/>
B	Plotter	<input type="checkbox"/>
C	Sensor	<input type="checkbox"/>
D	Light	<input type="checkbox"/>



(ii) Identify **one** output device that is used as part of a traffic control system.

(1)

A	Scanner	<input type="checkbox"/>
B	Plotter	<input type="checkbox"/>
C	Sensor	<input type="checkbox"/>
D	Light	<input type="checkbox"/>

(c) Many motorists use route finders to help them plan journeys.

From the following list identify:

- **two** items of data that the motorist must enter
- **two** items of data that the route finder will provide

(4)

		The motorist must enter:	The route finder will provide:
A	Traffic hold-ups	<input type="checkbox"/>	<input type="checkbox"/>
B	Departure address	<input type="checkbox"/>	<input type="checkbox"/>
C	Road numbers	<input type="checkbox"/>	<input type="checkbox"/>
D	Departure time	<input type="checkbox"/>	<input type="checkbox"/>
E	Weather conditions	<input type="checkbox"/>	<input type="checkbox"/>
F	Average speed	<input type="checkbox"/>	<input type="checkbox"/>
G	Travelling distance	<input type="checkbox"/>	<input type="checkbox"/>
H	Destination address	<input type="checkbox"/>	<input type="checkbox"/>

(d) GPS is also used to help motorists plan journeys.

GPS finds locations using signals received from:

(1)

A	the internet	<input type="checkbox"/>
B	mobile telephones	<input type="checkbox"/>
C	wifi systems	<input type="checkbox"/>
D	satellites	<input type="checkbox"/>

(Total for Question 5 = 9 marks)

TOTAL FOR PAPER = 45 MARKS



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