

Mark Scheme Summer 2009

Principal Learning

Information Technology

Level 1 IT101/01

Level 2 IT201/01

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General Marking Guidance

- All candidates must receive the same treatment. Examiners must mark the first candidate in exactly the same way as they mark the last.
- Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than penalised for omissions.
- Examiners should mark according to the mark scheme not according to their perception of where the grade boundaries may lie.
- There is no ceiling on achievement. All marks on the mark scheme should be used appropriately.
- All the marks on the mark scheme are designed to be awarded. Examiners should always award full marks if deserved, i.e. if the answer matches the mark scheme. Examiners should also be prepared to award zero marks if the candidate's response is not worthy of credit according to the mark scheme.
- Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification may be limited.
- When examiners are in doubt regarding the application of the mark scheme to a candidate's response, the team leader must be consulted.
- Crossed out work should be marked UNLESS the candidate has replaced it with an alternative response.

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Question Number	Answer					Mark
1(a)	Component	Input	Output	Input & Output	Neither	(4)
	Concept keyboard	✓				
	Touch screen			✓		
	Barcode scanner	✓				
	Chip and Pin reader	✓				

Question Number	Answer	Mark
1(b)	Checkout operator errors	(1)

Question Number	Answer	Mark
1(c)	Make sure they have enough stock	(1)

Question Number	Answer	Mark
1(d)	Scanners are used to read barcodes	(1)

Question Number	Answer	Mark
1(e)	Supermarket's database	(1)

Question Number	Answer	Mark
1(f)	Transfer money between customer and supermarket bank accounts	(1)

Question Number	Answer	Mark
2(a)	Congestion charging	(1)

Question Number	Answer	Mark
2(b)	<ul style="list-style-type: none"> • Registration number • Owner • Date and time • Location 	(4)

Question Number	Answer	Mark
2(c)	Sensor	(1)

Question Number	Answer	Mark
2(d)	Destination	(1)
Question Number	Answer	Mark
2(e)	Road numbers	(1)

Question Number	Answer	Mark
2(f)	Delivery times	(1)

Question Number	Answer	Mark
3(a)	<ul style="list-style-type: none"> • Internet Service Provider • Broadband connection • Modem • Web browser 	(4)

Question Number	Answer	Mark
3(b)	Attract customers from a wider area	(1)

Question Number	Answer	Mark
3(c)	Debit card	(1)

Question Number	Answer	Mark
3(d)	Printer	(1)

Question Number	Answer	Mark
3(e)	Order number	(1)

Question Number	Answer	Mark
3(f)	Firewall	(1)

Question Number	Answer	Mark
4(a)	Magnetic stripe	(1)

Question Number	Answer	Mark
4(b)	<ul style="list-style-type: none"> • Sensor • Processor • Software • Screen 	(4)

Question Number	Answer	Mark
4(c)	To attract new members	(1)

Question Number	Answer	Mark
4(d)	Reduced printing costs for 'Gym for Life'	(1)

Question Number	Answer	Mark
4(e)	Server	(1)

Question Number	Answer	Mark
4(f)	Text Message	(1)

Question Number	Answer	Mark
5(a)	<ul style="list-style-type: none"> • Debit • Chip • PIN • Keypad 	(4)

Question Number	Answer	Mark
5(b)	Statements can be printed	(1)

Question Number	Answer	Mark
5(c)	Fewer branches are needed	(1)

Question Number	Answer	Mark
5(d)	Access to customers over wider areas	(1)

Question Number	Answer	Mark
5(e)	Communication software	(1)

Question Number	Answer	Mark
5(f)	To improve communication with customers	(1)

IT201/01
Potential of Technology

Question Number	Answer	Mark
1(a)	<ul style="list-style-type: none"> • Debit card • Account number • Telephone system • Customer's account to the supermarket's account 	(4)

Question Number	Answer	Mark
1(b)	Chip and pin reader	(1)

Question Number	Answer	Mark
1(c)	Price changes can be implemented easily	(1)

Question Number	Answer	Mark
1(d)	Set selling prices	(1)

Question Number	Answer	Mark
1(e)	Checkout operator performance	(1)

Question Number	Answer	Mark
1(f)	Data can be transferred over a network using radio waves.	(1)

Question Number	Answer	Mark
2(a)	<ul style="list-style-type: none"> • The signal provided by a wireless connection has a limited range. • Wireless connections do not need any cabling to link PCs together. • A wired connection usually gives a more reliable signal than a wireless connection. • Wired connections are usually expensive to install. 	(4)

Question Number	Answer	Mark
2(b)	A biometric scanner	(1)

Question Number	Answer	Mark
2(c)	The data can be output in different formats for different users.	(1)

Question Number	Answer	Mark
2(d)	Save the time students spend checking for updates	(1)

Question Number	Answer	Mark
2(e)	Reduce the threat of viruses	(1)

Question Number	Answer	Mark
3(a)	Uniquely identifies a vehicle.	(1)

Question Number	Answer	Mark
3(b)	Sensor - light	(1)

Question Number	Answer	Mark
3(c)	<ul style="list-style-type: none"> • Software • Email • Order • Database 	(4)

Question Number	Answer	Mark
3(d)	Improve customer relations.	(1)

Question Number	Answer	Mark
3(e)	Satellite technology is used to locate a vehicle.	(1)

Question Number	Answer	Mark
3(f)	Local bus driver	(1)

Question Number	Answer	Mark
4(a)	Communication software, broadband connection, ISP, web browser	(1)

Question Number	Answer	Mark
4(b)	Access to a wider customer base leading to increased sales.	(1)

Question Number	Answer	Mark
4(c)	Encryption	(1)

Question Number	Answer	Mark
4(d)	Firewall	(1)

Question Number	Answer	Mark
4(e)	Computer Misuse Act.	(1)

Question Number	Answer	Mark
4(f)	<ul style="list-style-type: none"> • The availability of the internet gives organisations 24/7 access to international markets. • Customers using the internet can compare many products before purchase. • Organisations selling goods over the internet have a responsibility for their staff's health and safety. • Selling goods over the internet gives organisations the opportunity to reduce overhead costs. 	(4)

Question Number	Answer	Mark
5(a)	Date and time	(1)

Question Number	Answer	Mark
5(b)	Microchip	
	Data can be read from and written to.	
	Data can only be read from.	(1)

Question Number	Answer	Mark
5(c)	<ul style="list-style-type: none"> • Touch screen • Sensor • Processor • Control device 	(4)

Question Number	Answer	Mark
5(d)	Increased membership by attracting members from other gyms, leading to increased revenue.	(1)

Question Number	Answer	Mark
5(e)	Application software	(1)

Question Number	Answer	Mark
6(a)	Reduce the number of branches	(1)

Question Number	Answer	Mark
6(b)	Look for changes in the equipment. Block the keypad while entering your PIN.	(1)

Question Number	Answer	Mark
6(c)	<ul style="list-style-type: none"> • Call centres have a high level of automation • Call centres are usually located outside city centres where premises are cheaper. • Calls can be monitored and used to assess staff performance. • Call centres can be located overseas where salaries are lower. 	(4)

Question Number	Answer	Mark
6(d)	Do not respond to suspicious emails.	(1)

Question Number	Answer	Mark
6(e)	Between branches, leading to accurate, up-to-date information.	(1)

Question Number	Answer	Mark
6(f)	Employees can access the intranet whenever they have internet connectivity. User names and passwords ensure data security.	(1)

Question Number	Answer	Mark
7(a)	Improved the quality of communication at local and global level.	(1)

Question Number	Answer	Mark
7(b)	<ul style="list-style-type: none"> • CAL systems motivate students by using multimedia and interactivity. • Students can work through the resources at their own pace. • Students can access web based CAL at any time they have internet access. • CAL systems incorporate self assessment giving instant feedback on progress. 	(4)

Question Number	Answer	Mark
8(a)	Emailing documents	(1)

Question Number	Answer	Mark
8(b)	Network manager	(1)

Question Number	Answer	Mark
8(c)	An increase in the number of people working from home	(1)

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