

# Mark Scheme January 2009

### **Principal Learning**

Information Technology Technology in Organisations Level 1 (IT101)

The Potential of Technology Level 2 (IT201)



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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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## Information Technology Technology in Organisations Level 1 Unit 1

Cuestion Number 1(b) Debit card (1)  Question Number 1(c) To save costs by reducing the number of staff (1)  Question Number 1(c) To save costs by reducing the number of staff (1)  Question Number 1(d) Withdraw money (1)  Question Number 1(e) Change your password regularly (1)	Question Number	Answer				Mark
Question Number     Answer       1(b)     Debit card       Question Number     Answer       1(c)     To save costs by reducing the number of staff       Question Number     Answer       Number 1(d)     Withdraw money       Question Number 1(e)     Change your password regularly       Question Number 2(a)     Answer       Components Input Output Storage       Printer X     Keyboard X       Keyboard X     X       Monitor X     X       CD     X			I MANUAL ACTUAL SECTION AND ACTUAL SECTION ACTUA			
Number 1(b) Debit card (1)  Question Number 1(c) To save costs by reducing the number of staff (1)  Question Number 1(d) Withdraw money (1)  Question Number 1(e) Change your password regularly (1)  Question Number 2(a)  Components Input Output Storage Printer X Keyboard X Monitor X X CD X X						(4)
Question Number Answer Mark   1(c) To save costs by reducing the number of staff (1)   Question Number Answer Mark   1(d) Withdraw money (1)   Question Number Answer Mark   1(e) Change your password regularly (1)   Question Number Answer Mark   2(a) Components Input Output Storage   Printer X Keyboard X   Keyboard X X X   CD X X		Answer				Mark
Number 1(c) To save costs by reducing the number of staff (1)  Question Number 1(d) Withdraw money (1)  Question Number Answer Mark Mark Number 1(e) Change your password regularly (1)  Question Number Answer Mark Mark Number 2(a)  Components Input Output Storage Printer X Keyboard X Monitor X Monitor X Monitor X X CD X		Debit card				(1)
1(c)     To save costs by reducing the number of staff     (1)       Question Number     Answer     Mark       1(d)     Withdraw money     (1)       Question Number     Answer     Mark       1(e)     Change your password regularly     (1)       Question Number     Answer     Mark       2(a)     Components Input Output Storage       Printer     X       Keyboard     X       Monitor     X       CD     X		Answer				Mark
Number 1(d) Withdraw money (1)  Question Number 1(e) Change your password regularly (1)  Question Number 2(a)  Components Input Output Storage Printer X Keyboard X Monitor X CD X X		To save costs by r	educing the num	nber of staff		(1)
Question Number Answer   1(e) Change your password regularly   Question Number Answer   2(a) Components Input Output Storage   Printer X   Keyboard X X   Mark		Answer				Mark
Number         (1)           1(e)         Change your password regularly         (1)           Question Number           2(a)         Answer         Mark           Components         Input         Output         Storage           Printer         X         X           Keyboard         X         X           Monitor         X         X           CD         X         X		Withdraw money				(1)
Question Number  Components Input Output Storage Printer X Keyboard X Monitor X CD X		Answer				Mark
Number  2(a)  Components Input Output Storage  Printer X  Keyboard X  Monitor X  CD X		Change your pass	word regularly			(1)
Components Input Output Storage  Printer X  Keyboard X  Monitor X  CD X	Number	Answer				Mark
Printer X  Keyboard X  Monitor X  CD X	2(a)	Components	Input	Output	Storage	]
Monitor X X			·	+		-
CD X		Keyboard	Х			1
		Monitor		X		]
		CD			Х	
						(4)

Ougation	Amouron	Monk
Question Number	Answer	Mark
	Application astrono	(4)
2(b)	Application software	(1)
O	A	NA - al.
Question	Answer	Mark
Number	1.0	4.3
2(c)	letter	(1)
0 "		T., .
Question	Answer	Mark
Number		(4)
2(d)	Communication software	(1)
0 "		
Question	Answer	Mark
Number		
3(a)		
	D	
	B	
	F 1 1	
	A	
	С	(4)
		(1)
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N I I	Answer	Mark
Number		
Number 3(b)	Answer  Item code	(1)
3(b)	Item code	(1)
3(b)  Question		
3(b)  Question Number	Item code  Answer	(1) Mark
3(b)  Question	Item code	(1)
3(b)  Question Number 3(c)	Item code  Answer  Barcodes reduce theft from supermarkets	(1) Mark (1)
3(b)  Question Number 3(c)  Question	Item code  Answer	(1) Mark
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3(b)  Question Number 3(c)  Question Number 3(d)	Item code  Answer  Barcodes reduce theft from supermarkets  Answer  increase sales	(1)  Mark  (1)  Mark  (1)
3(b)  Question Number 3(c)  Question Number 3(d)  Question	Item code  Answer  Barcodes reduce theft from supermarkets  Answer  increase sales	(1)  Mark  (1)  Mark  (1)  Mark  (1)
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3(b)  Question Number 3(c)  Question Number 3(d)  Question Number 3(e)	Item code  Answer  Barcodes reduce theft from supermarkets  Answer  increase sales  Answer  less staff are needed	(1)  Mark  (1)  Mark  (1)  Mark  (1)  Mark  (1)
3(b)  Question Number 3(c)  Question Number 3(d)  Question Number 3(e)  Question	Item code  Answer  Barcodes reduce theft from supermarkets  Answer  increase sales  Answer	(1)  Mark  (1)  Mark  (1)  Mark  (1)
3(b)  Question Number 3(c)  Question Number 3(d)  Question Number 3(e)	Item code  Answer  Barcodes reduce theft from supermarkets  Answer  increase sales  Answer  less staff are needed	(1)  Mark  (1)  Mark  (1)  Mark  (1)  Mark  (1)

Question Number	Answer		Mark
4(a)	Spam Hacking attempts Viruses Anti social material	email filter firewall Anti virus software filter software	(4)
Question Number	Answer		Mark
4(b)	<ul><li>on the internet</li><li>email address</li><li>upload</li><li>debit card</li></ul>		(4)
Question Number	Answer		Mark
4(c)	It is illegal to download music v	vithout the owner's permission	(1)
Question Number	Answer		Mark
4(d)	access new markets.		(1)
Question Number	Answer		Mark
4(e)	<ul><li>wider</li><li>revenue</li><li>reduce</li><li>sales</li></ul>		(4)
Question Number	Answer		Mark
5(a)	can work more accurately than	a human	(1)
Question Number	Answer		Mark
5(b)	sensor		(1)
Question Number	Answer		Mark
5(c)	plotter		(1)
Question Number	Answer		Mark
5(d)	<ul><li>The quality of output i</li></ul>	e reprogrammed to handle a new	(4)

# Information Technology The Potential of Technology Level 2 Unit 1

Question Number	Answer	Mark
1(a)	The bank will have access to a larger customer base.	(1)
Question Number 1(b)	Answer  Withdraw cash 24 hours a day	Mark
T(D)	Withdraw cash 24 hours a day.	(1)
Question Number	Answer	Mark
1(c)	Install a firewall and regularly change your password.	(1)
Question Number	Answer	Mark
1(d)	Forward the email to the bank and then delete it.	(1)
Question Number	Answer	Mark
1(e)	<ul><li>debit</li><li>chip</li><li>encrypted</li></ul>	
	■ network	(4)
Question Number	Answer	Mark
1(f)	Customer convenience and a reduction in the banks operating costs.	(1)
Question Number	Answer	Mark
1(g)	To identify which ATMs are fully utilised and where additional machines may be required	(1)
Question Number	Answer	Mark
2(a)(i)	Increase sales by targeting advertising	(1)
Question Number	Answer	Mark
2(a)(ii)	are given special offer vouchers, to encourage them to return to the store.	(1)
Question Number	Answer	Mark
2(b)	magnetic stripe reader	(1)
Question Number	Answer	Mark
2(c)	Data Protection Act	(1)

Question Number	Answer		Mark
2(d)	Supermarkets need fewer staff. Customers spend less time queuing.		(1)
Question Number	Answer		Mark
2(e)	<ul> <li>EPOS systems increase efficiency and reduce the amount of stock supermarkets need to hold</li> <li>When a bar code is scanned the stock is automatically reduced on a data file.</li> <li>EPOS systems allow managers to monitor the demand at checkouts and ensure the correct staffing level.</li> <li>EPOS systems reduce the number of errors made by check out operators</li> </ul>		(4)
Question Number	Answer		Mark
3(a)	spam hacking attempts viruses antisocial material	email filter firewall antivirus software Internet filter	(4)
Question Number	Answer		Mark
3(b)	Prospective buyers can make and r	nonitor bids over a period of time.	(1)
Question Number	Answer		Mark
3(c)	Arrange to meet a buyer / seller in a	a private place to exchange goods.	(1)
Question Number	Answer		Mark
3(d)	It is illegal to download music witho	ut the owner's permission.	(1)
Question Number	Answer		Mark
3(e)	The customers benefit as they no long the company benefits as they have		(1)
Question Number	Answer		Mark
4(a)	Sensor		(1)

Question Number	Answer	Mark
4(b)	<ul> <li>More mundane tasks are carried out using CAM leaving more interesting tasks for workers.</li> <li>Process control systems reduce the need for monitoring.</li> <li>The introduction of CAM may lead to some workers being unhappy as they will need retraining.</li> <li>Process control systems can instantly respond to changing conditions.</li> <li>Working conditions are improved as CAM is used to carry out unpleasant tasks.</li> </ul>	(4)
Question Number	Answer	Mark
4(c)	Fewer unskilled staff required.  More skilled staff required.  More training required.	(1)
Question Number	Answer	Mark
4(d)	To attract more customers by providing a virtual representation of their finished kitchen.	(1)
Question Number	Answer	Mark
5(a)	Improving the effectiveness of communication between departments, which leads to more reliable and up to date information.	(1)
Question Number	Answer	Mark
5(b)	An intranet only allows information to be accessed by members of the organisation. This ensures that business-critical data is kept secure.	(1)
Question Number	Answer	Mark
5(c)	Contact between the employee and home can be maintained.	(1)
Question Number	Answer	Mark
5(d)	Accessing the Internet using a secure network	(1)

Question Number	Answer	Mark
5(e)	<ul> <li>The increased use of mobile technologies has changed the way many individuals work.</li> <li>The availability of the internet gives organisations access to more information.</li> <li>The increased use of mobile technologies has led to an improvement in communications between organisations and customers.</li> <li>The increased use of mobile technologies has led to concerns about the health of individuals.</li> </ul>	(4)
Question Number	Answer	Mark
6(a)	<ul><li>the Internet</li><li>number</li><li>database</li><li>printer</li></ul>	(4)
Question Number	Answer	Mark
6(b)	Sensor, monitor, plotter	(1)
Question Number	Answer	Mark
6(c)	Computer software which simulates the knowledge of a human expert	(1)
Question Number	Answer	Mark
6(d)	although there may be errors in its knowledge base.	(1)
Question Number	Answer	Mark
6(e)	Improve the accuracy of diagnosis and makes more efficient use of the doctor's time	(1)
Question Number	Answer	Mark
7(a)	<ul> <li>The availability of the Internet has had a positive effect on many housebound individuals</li> <li>A wider variety of learning methods have emerged from the use of the Internet.</li> <li>New technologies have led to organisations outsourcing work to other countries</li> <li>The increased use of the mobile technologies has allowed for a greater flexibility in peoples' lives</li> </ul>	(4)
Question Number	Answer	Mark
7(b)	CCTV, biometric controls, computerised databases	(1)

Question Number	Answer	Mark
7(c)	E – advantage to employee D – disadvantage to employee A – advantage to employer G – disadvantage to employer	(4)

Question Number	Answer	Mark
7(d)	Online training is suitable for all training needs.	(1)

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