

NATIONAL SENIOR CERTIFICATE

GRADE 12

COMPUTER APPLICATIONS TECHNOLOGY P2

FEBRUARY/MARCH 2010

MEMORANDUM

MARKS: 150

This memorandum consists of 13 pages.

SECTION A

QUESTION 1

1.1	Р	✓	(1)
1.2	L	✓	(1)
1.3	0	✓	(1)
1.4	J	✓	(1)
1.5	Q	✓	(1)
1.6	С	✓	(1)
1.7	R	✓	(1)
1.8	Н	✓	(1)
1.9	G	✓	(1)
1.10	I	✓	(1)
			[10]

QUESTION 2

			[10]
2.10	Α	✓	(1)
2.9	С	✓	(1)
2.8	С	✓	(1)
2.7	Α	✓	(1)
2.6	С	✓	(1)
2.5	А	✓	(1)
2.4	В	✓	(1)
2.3	D	✓	(1)
2.2	D	✓	(1)
2.1	В	✓	(1)

TOTAL SECTION A: 20

SECTION B

QUESTION 3

3.1	topics / Can se Can ch Can re Can us Easy to Can ea Data/In	o perform queries OR easy to find books/media on particular author / stock earch for media/books by subject/topic eck which books are borrowed against their name serve books to Internet for research or print lists/results of queries asily generate statistics, catalogues, indexes of library books aformation can be accessed by multiple users simultaneously recommendation to issue a book, etc. (Any 3 valid responses)	(3)
		(Arry 5 valid responses) * * *	(3)
3.2		ow level word processing or spreadsheet work t workstation (for browsing)	
	Ваокар	(Any valid response) ✓	(1)
3.3	3.3.1	1.73 GHz ✓	(1)
	3.3.2	Laptop 1 ✓ More primary memory/has more memory or RAM ✓	(2)
	3.3.3	The lightscribe does NOT affect the reading of CDs ✓	
		Lightscribe burns labels onto CDs/DVDs ✓ OR	
		DVD drives are backward compatible ✓ and can read CDs ✓ OR	
		DVD drives read & play CDs ✓✓	(2)
	3.3.4	Internal modem ✓ Wireless ✓	(2)
	3.3.5	Wireless ✓	(1)
	3.3.6	Size of screen ✓ Measured diagonally in inches ✓ From bottom left corner to top right corner – vice versa	
		From top left corner to bottom right corner – vice versa	(2)

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			[29]
3.6	Print t	o file box has been checked ✓	(1)
		Potential for damage to printer (Any 1) ✓	(1)
	3.5.2	Guarantee falls away Quality of copies – may not be very good	
3.5	3.5.1	Contributes towards green computing ✓ Cheaper ✓	(2)
	3.4.6	Printer 3/Laserjet printer ✓	(1)
	3.4.5	Printer 1 can do more than just print, i.e. scan and copy and print ✓ (must state at least one function other than to print)	(1)
	3.4.4	Printer 2 has software with drivers ✓ or It indicates that the printer will work with all the listed operating systems ✓ ✓	(2)
	3.4.3	Card slots ✓	(1)
	3.4.2	4800 dpi ✓	(1)
3.4	3.4.1	Printer 2 ✓ 'borderless printer' ✓	(2)
	3.3.8	Provides more ports ✓ (to connect many USB devices, e.g. printer, mouse, memory stick, etc.) to the laptop at the same time Easier to connect than having to plug in back of PC (Any 1) ✓	(1)
	3.3.7	The dealer will send a technician to where the laptop is situated ✓ To solve the problem or repair the computer ✓	(2)

4.1	Teachers can load resources onto the network for learners All users have access to what is available Librarian can update news, school announcements, etc. on the library system on a daily basis Users can share software Users can share hardware All users can access the library administration system, etc (Any 3) ✓ ✓ ✓	(3)
4.2	Length of the password should not be less than 5 characters Use a combination of alphabetical characters and numbers and other characters Do not use personal or easily identifiable information such as ID number, name of pets, etc	
	Use a mixture of upper and lower case characters (Any 2) ✓ ✓	(2)
4.3	Load on shared drive or folder on the network Install it on all the computers (Any 1) ✓	(1)
4.4	4.4.1 Make sure auto-protect option is installed Perform regular scans Only run one anti-virus program on the system Install anti-virus program on all machines Set to send reports of virus activity to librarian/administrator (Any 3) ✓ ✓ ✓	(3)
	4.4.2 Anti-virus software detects virus activity by matching it to a list or database of virus definitions. ✓ These definitions need to be regularly updated to detect new viruses. ✓	(2)
	 4.4.3 Malicious purposes Out of boredom For ego-trips/To show how well they can program For economic gain, others will then have to purchase an anti-virus program To create/exploit security loopholes <i>NOTE TO MARKER: Answer must refer to human activity – do not accept a definition for a virus or a description of how viruses spread</i>	(1)

	4.4.4 Avast AVG Bit Defender (Norton) F Secure NOTE TO MARKE listed programs he		Panda PC-cillin Symantec of these commonly (Any 1) ✓	(1)
			(Ally 1) v	(1)
4.5	Do not store offensive ma Do not give out password Use the allocated amount Do not save personal files Do not allow others to use NOTE TO MARKER: This	s of disk space on on network your account, e s question refers	tc	
	the use of the computer c		valid responses) ✓ ✓ ✓	(3)
4.6	4.6.1 Hyperlinks The word documer list The word documer websites		an indexed/organised hyperlinks to the	
	Websites		(Any 2) ✓ ✓	(2)
	4.6.2 Advantage:	Instant Cheaper than S Group commun		
	Disadvantage:	Not all cell pho	nes have IM facilities (Any 1) ✓	(2)
4.7	Save in JPEG/compresse Reduce the number of col Reduce the resolution Reduce physical size of the Save in grayscale/black a	lours ne image nd white		
	Crop any unnecessary ele	ements from the p	ohoto (Any 2) ✓ ✓	(2)
4.8	4.8.1 Would have been a Could have been a Are portable, etc		blisher	
	Are portable, etc	(Any	2 valid responses) ✓ ✓	(2)

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		[28]
1.0	Wikipedia allows content to be added/edited by the on-line community of (hopefully) knowledgeable people While the content of other on-line encyclopaedias is determined by the editor or publisher of that encyclopaedia It is created by the public/net users (Any 2) ✓✓	(2)
4.9	4.8.2 Can easily compare information between sites Up-to-date information also available Zoom of the screen can be changed for visually impaired Contributes towards green computing Selected pages can be printed Digital format allows content to be edited Can more easily be shared/communicated to others, etc. (Any 2 valid responses) ✓✓ It is free	(2)

5.1		Uninterrupted Power Supply Unit (Unit (Uni	JPS)/ (Any 1) ✓	(1)
	Damages	motherboards	(Any 1) ✓	(1)
5.2	has borrowed the b The book(s) can be database/know whe Speed – fast check stocktaking	ook(s) may be used to identify the pook tracked at any time in the main ere the books are at all times) ing in and issuing of books and doir accurate details of issues and retuing	ng	(3)
5.3	Read-only Password to modify Convert to PDF form		(Any 1) ✓	(1)
5.4	Health Risk RSI/CTS Repetitive strain injury/Carpal tunnel syndrome Eye strain Back strain Blood circulation problems (Any 2 risks) ✓ ✓	Solution Ergonomically designed keyboard Seat at correct height Take regular breaks Correct lighting Take regular breaks Monitor set to correct brightness Monitor at correct height Change to LCD screen Ergonomically designed chair Chair and keyboard at right heigh Regular breaks Regular breaks Chair at the right height (Any 2 solutions associated to the	(Any 1) t (Any 1) (Any 1)	
	(,,	√ √		(4)

5.5	Does not have the computer	ne program required to open the document on the	
	The file is corrup		
	The file may be i	infected by a virus	(0)
		(Any 2) ✓ ✓	(2)
5.6	Transfer Cheap c Able to s Able to k Receipts	received/sent anywhere there is Internet access red/Sent immediately ommunication over distance send to many people at the same time send electronic attachments seep track of written conversation s/ Confirmation of reading / receiving e-mails onous communication (Any 2) (Any 2)	(2)
	May not Need Int phone/co Can get Suscepti E-mail ho Can take	e a long time to download attachments,	
	aepenair	ng on speed of connection, etc. (Any 2 valid responses) ✓ ✓	(2)
5.7	Rule	Reason	
	Meaningless subject in subject line	Proper subject in subject line to scan message to see if it should be opened and read	
	Large attachment	Uses up cap/takes too long to download Inconvenience/cost to receiver	
	Written in caps	Electronic form of shouting	
	Compromising content	E-mail can be forwarded/traced, breach of privacy	
	Non-standard abbreviation	Others may not understand what it means	
	(Any 2 rules) ✓ ✓	(Any 2 reasons associated with rules) ✓ ✓	
	NOTE TO MARK		
	Do not accept the netiquette breach	eat content refers to illegal actions (criminal, not h)	(4)
			[20]

6.1	6.1.1 Real-time refers to live (synchronous) transmission having no delays ✓		(1)
	6.1.2 Webcam ✓		(1)
6.2	ALTERNATIVE 1	ALTERNATIVE 2	
	Go to YouTube	Use a search engine ✓	
	Enter keywords such as name of politician and/or quotes from the speech	Containing keywords such as name of politician and/or quotes from the speech PLUS the word 'video' or use advanced search for video ✓	(2)
6.3	6.3.1 Plagiarism ✓		(1)
	6.3.2 Use a search engine		
	Use plagiarism-detecting		
		(Any 1) ✓	(1)
6.4	Licence was purchased for home School has not purchased the sof		(2)
6.5	6.5.1 Is a small audio file/video	file ✓	(1)
	Can be viewed on a smal Can be run on any compu		(1)
6.6	Fast/high bandwidth		
0.0	Permanent connection		
	Gives a faster download speed Most cost-effective solution		
	iviosi cosi-ellective solution	(Any 2) ✓ ✓	(2)

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6.7	6.7.1 Amazon (Accept: Amazon.com) Kalahari (Accept: Kalahari.net) Barnes & Noble Exclusive Books	
	BidOrBuy	
	Loot, etc.	
	(Any 2 valid responses) ✓ ✓	(2)
	6.7.2 Do not have to travel to purchase Do not have to waste time in queues Can compare prices at leisure	
	Can view a list of the latest books available Previous purchase 'profile'/Can get books recommended based on your reading	
	Can get reviews by other customers Can sometimes be cheaper Can get books that are not available in your own country,	
	etc. (Any 3 valid responses) ✓ ✓ ✓	(3)
	, , ,	(-)
	6.7.3 Cannot page through the books The book may not always contain what you expected Have to pay electronically Have to pay for delivery	
	Possible security threats/fraud associated with use of credit cards May have to pay import taxes, etc	
	Need Internet access	
	Must wait for it to be delivered	
	(Any 3) ✓ ✓ ✓	(3)
6.8	Once-off payments require a once-off password to be sent to the user – so that hackers cannot access their accounts Message is received on cell phone when account is activated	
	Some banks require clients to input their password differently each time the account is accessed – per session On-screen keypads	
	Encryption/security protocols such as SSL	
	Automatically terminates session after a period of time, etc. (Any 2 valid responses) ✓ ✓	(2)
		[22]

7.1	7.1.1	Use Task Manager/Ctrl + Alt + Delete to call up the Task Manager to terminate the program Switch computer off and start again (reboot)	
		(Any 1) ✓	(1)
	7.1.2	Too little RAM Inadequate power supply Faulty memory Too many programs open at the same time Voltage fluctuations, etc	
		(Any 1) ✓	(1)
7.2	Sched Store to Check	regular backups ule backups or allocate responsibility for backups backup off-site that backups work a full backup and incremental backups of files that have been	
	altered	·	
		(Any 2) ✓ ✓	(2)
7.3	7.3.1	A relative/normal cell reference ✓ It changes ✓ as the formula is copied down	
		An absolute cell reference ✓ It remains the same ✓ as the formula is copied down	(4)
	7.3.2	Change the regional settings to South African via the control panel OR change settings in the Control Panel ✓ Format as currency ✓	(2)
	7.3.3	Should include: Title/heading ✓ Legend ✓ Data labels/percentage/value ✓	(3)
	7.3.4	Use shading/colour Emphasize the headings Use cell borders	
		Larger font for main heading, etc (Any valid response) ✓	(1)
	7.3.5	GPS ✓ OR Geographical OR Global Positioning System	(1)

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7.4	7.4.1	Barcode ✓	
		Only one book can have the barcode number/unique ✓	
		(also accept ISBN number which is unique)	(2)
	7.4.2	Yes/No ✓	(1)
	7.4.3	Number/Integer ✓	(1)
	7.4.4	An input mask prevents a user from entering data in an	
		incorrect format. ✓ The input mask would test for 4 digits (e.g. 2007)/2 digits	
		(e.g. 07) that it would be numbers ✓	(2)
		(e.g. or) that it would be flumbers	(2)
	7.4.5	Set a validation rule ✓ whereby you specify a year greater	
		than or equal to 1990 (>=1990) 🗸	(2)
	7.4.6	Grouping ✓	(1)
7.5	7.5.1	Quantit	(1)
7.5	7.5.1	Query ✓	(1)
	7.5.2	Mail merge ✓	(1)
7.6	7.6.1	Autocorrect ✓	
		Turn off autocorrect OR change language to South African	
		English ✓	(2)
	7.6.2	Styles ✓	
		Format painter ✓	(2)
	7.6.3	Find and Replace	
		Write a macro	
		Use Auto-Correct	(4)
		(Any 1) ✓	(1)
			[31]

TOTAL SECTION B: 130

GRAND TOTAL: 150