

POSSIBLE ANSWERS FOR :

COMPUTER STUDIES NOVEMBER 2003**STANDARD GRADE THEORY (PAPER 2): FINAL****Question 1**

1.1.1 A. $A' + 1 = 0 + 1 = 1$ ✓

1.1.2 $(A + A') \cdot (0) = 1(0) = 0$ ✓ (2)

1.2

X	Y	XY' ✓	X + XY' ✓
0	0	0	0
0	1	0	0
1	0	1	1
1	1	0	1

(2)

1.3.1 F mushroom

1.3.2 D asparagus, brinjal

1.3.3 B asparagus, brinjal, spinach, mushroom (6)

[10]**Question 2**

- 2.1.1 ✓ The screen is subdivided into pixels
 ✓ The pixels are measured on the *horizontal axis* (or: "going from left to right") and on the *vertical axis* (or: "going from top to bottom") (2)

2.1.2 AGP has direct access to main memory for storage of graphics data
 OR: AGP has a dedicated point-to-point channel to RAM

(1)

- 2.1.3 Any two of: (2)
- Has its own processor which does some of processing of graphics
 - Has a great deal extra RAM in which graphics data are stored
 - Capable of 3-D rendering calculations
 - Can connect more types of devices than an IDE (example: scanner)

2.2 Universal Serial Bus (just USB is acceptable) (1)

2.3 Any two of:
 Transfers data faster than an IDE interface
 Supports larger hard drives
 Can connect up to 7 devices to a SCSI interface (2)

2.4 Dynamic RAM and static RAM (2)

2.5

	DRAM	SRAM
A. Consists of	capacitors	transistors

B. Has to be refreshed	yes	no
C. Typical amount of this memory in current computers	256 MB	512 KB

(6)

2.6 SRAM (1)

2.7 Data bus, address bus, control bus (3)

2.8 To transfer data between the CPU and peripherals. (1)

2.9 Transfers data at a faster speed
The PCI bus is wider OR PCI bus transfers more data at the same time (2)

2.10 Does arithmetic and logic calculations (2)
✓ one mark for "arithmetic calculations", ✓ one mark for "logic calculations or operations"

2.11

2.11.1 register	D
2.11.2 buffer	A
2.11.3 cache memory	F
2.11.4 CMOS	B
2.11.5 hard disk	C
2.11.6 video RAM	E

(6)

[31]

Question 3

3.1

- A system
B system
C application
D application
E system (5)

3.2

Any two of:

- Process management
- device input/output management
- Provides user interface (2)

*NB: JUST I/O management not sufficient, as it could mean I/O file management
For device input/output, assess the learner's sentences: "Manages printers" gets a mark as a form of device I/O. "Manages printers", "Transfers input from scanner" both refer to device I/O – thus only one mark for the two.*

3.3.1 false

3.3.2 false

3.3.3 true

- 3.3.4 false (4)
- 3.4 maximise the amount of work that a computer can do in a given time period
OR: maximise the number of instructions that can be processed per second (2)
- 3.5 One of:
- minimise turnaround time
 - utilize resources efficiently (1)
- 3.6 Any two of:
- software is free (or very cheap)
 - is a very stable system
 - not really affected by viruses
 - can run on inexpensive hardware
 - uses protected memory
 - uses pre-emptive multitasking
 - source code is open for modifying
 - Linux systems run fast due to efficient use of resources
 - GUI has many different options (2)
- 3.7 B (1)
- 3.8 On the hard disk (1)
- 3.9 Two of:
- Checks whether the username typed in to log on exists on the list of users
Checks whether the user typed in the correct password
 - Checks whether a user may read/execute/modify 'n certain file or folder, before the user is allowed to perform these actions
 - Checks whether a user is allowed to log on at a specific computer
 - Tests whether the user is allowed to log on during a specific time of the day
Provides a facility whereby certain rights can be assigned to certain users, on any file or folder (2)

[20]

Question 4

4.1.1.	C	
4.1.2	F	
4.1.3	G	
4.1.4	A	
4.1.5	E	
4.1.6	D	
4.1.7	B	(7)
4.2.1	star	
4.2.2	full duplex	
4.2.3	passive	
4.2.4	server	
4.2.5	topology	(5)

4.3.1	Two of: ▪ fast data transfer rate ▪ not affected by lightning ▪ lower attenuation than copper ▪ not affected by EMI ▪ immune to eavesdropping ▪ does not get hot ▪ does not conduct electricity ▪ thin and lightweight	(2)
4.3.2	One of: • expensive • complex to install • other network components (to go with fibre optic cables) are expensive	(1)
4.3.3	UTP (or just: twisted pair) coaxial	(2)
4.4.1	infrared laser	(2)
4.4.2	two of: • terrestrial microwave • satellite microwave • radio wave	(2)
4.4.3	Global Area Network	(1)
4.4.4	gateway	(1)
4.4.5	<i>The same item may not be mentioned under more than one heading. For example, "daily backups" can be under either data security or software, but not both.</i> Data security: any one of: ▪ set user rights on files/folders (i.e. give a particular user rights to certain files) ▪ install and/or update anti-virus files ▪ install and/or maintain the firewall on the network ▪ do daily backups (<i>only if not mentioned under software</i>) Hardware: Any one of: ▪ set up printers, scanners, etc (i.e. peripherals in network) ▪ repair or organize to repair hardware components Software: Any one of: ▪ do daily backups (<i>only if not mentioned under data security</i>) ▪ install new applications on server	(3)

4.5	Any two of: • hardware is cheaper (no need for file server) • software is cheaper (no need for server operating system and licences) • easier to maintain • easier to share files and printers	(2)
4.6	Packet switching: Any two of following facts: • messages are broken into packets • packets can be sent by varying routes • packets can be of variable length Cell switching: • fixed connection for short length of time • fixed packet size	(4)
4.7.1	conversion of data into a format which can be only be opened again by means of a certain code ✓ look for the concept of a code; not the same as a password	(1)
4.7.2	hardware/software system which prevents unauthorized access to network ✓ look for the concept of unauthorized access	(1)
		[34]

Question 5

5.1	No, because there already is a username called "donald" at yahoo, which belongs to Donald Abrahams	(2)
5.2	mweb iafrica	(2)
5.3	Provides a connection between the user's computer and the computers which make up the Internet	(1)
5.4.1	Donald <i>Ferreira</i> NB If a candidate writes "Donald" only, this is marked correct <i>only if his/her answer to 5.4.2 is also correct. I.e. one can establish that the candidate identified the domain "worldshoes" and the user correctly.</i>	(1)
5.4.2	Accept one of: ▪ www.worldshoes.co.za ▪ worldshoes ▪ worldshoes.co.za	(1)
5.5.1	C	(1)
5.5.2	the address of a website	(2)
5.5.3	one of: • hyperlink • link	(1)
5.5.4	Altavista	(1)
5.5.5	Two of:	(2)

	• excite • google • yahoo • askjeeves • dogpile ... for more search engines, see the Appendix	
5.6	HTML	(1)
5.7	• cellular bandwidth is low • screen is too small	(2)
5.8	One of: • PDA • pager • palmtop • notepad <i>not acceptable:</i> <i>cdllphone</i> <i>WAP cellphone (read question)</i>	(1)
5.9	Any two of: • can edit images • can store images on one's computer without having to scan them in • can take a large number of photographs • can delete the photographs that you don't want • can have the photographs immediately, as you don't have to wait for development	(2)

[20]

Question 6

6.1	Any two of: • Quick to add figures in Excel • Quick to process information using a database • Can change documents easily in Word, without retyping • Can make birthday cards on computer, do not have to go shopping to buy a card • can set a computer to water the garden, do not have to get up and turn on the sprinkler <i>There are many correct answers. To decide whether an answer gets a mark, check the following:</i> • Does the answer specifically refer to something that saves us time? (Not money, or anything else.) • Is the saving of time a result of using a computer? • The computer use described may not refer to a form of using the Internet or e-mail. (For example: "we can do online banking" is wrong, as it does not answer this specific question.) Other correct answers:	(2)
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6.2	Any two of: ▪ theft of computer time ▪ spreading of viruses ▪ unauthorised changing of programs ▪ theft of data/ unauthorised access to others' personal information ▪ making illegal copies of software	(2)
6.3	Any two of the following facts: • used to uniquely identify the sender (of a message) • a code that is attached to the message • uses a hash-code (or: "special code") • uses a public key and private key	(2)
6.4.1	Any one of: • can employ fewer bank tellers • can attract customers from banks who don't have this facility • cheaper for bank if customer does transactions by himself • saves time because there is less paper work • saves costs because of less paper work • can serve a large number of customers at the same point in time <i>Note: Not acceptable to write "saves time" or "saves costs" without explaining why</i>	(1)
6.4.2	Any two of: ▪ convenience of doing banking at home ▪ can do banking at any time (i.e. 24 hours) ▪ can keep better track of personal finances due to quick access to accounts information ▪ saves time, no need to travel to bank	(2)
6.5	▪ Smart Card has microchip built in ✓ ▪ can do calculations and store results ✓	(2)
6.6	Any two of: • Telephone card (for use in a public telephone) • SIM card (in a cellphone) • Cards for paying electricity • Card to pay at tollgate	(2)
6.7	Any two of: • unsuitable information available to children	

	• information overload • need to distinguish what information is reliable and which is not • difficulty in adapting education to the information that is available to learners • breach of our privacy, as personal information is provided to others (e.g. e-address)	

[15]

Question 7

7.1.1	C	
7.1.2	A	
7.1.3	A	
7.1.4	B	
7.1.5	B	
7.1.6	D	(6)
7.2		
Excel	spreadsheets	• Lotus 1-2-3 • Quattro Pro
Photoshop	graphics, or editing photographs	• Flash • CorelDraw • CorelPhotopaint • Photodraw • Photosuite • Paintshop Pro • Studio Artist • Painter • Photo Wizard, Paintlet • I.Mage
Quickbooks	accounting	• Pastel, Accpac, Brilliant Accounting • Clearlybookkeeping • Simply Accounting • Billing Tracker • Quicken
Frontpage	writing websites	• Dreamweaver • Coffeecup • Web Studio 3 • Freeway
Grolier Encyclopedia	encyclopedia	• Encarta • Encyclopedia Britannica • Oxford Children's Encyclopedia • World Book Encyclopedia • Compton's Interactive Encyclopedia • Hutchinson's Encyclopedia • Webster's Encyclopedia
		(10)
7.3.1	name: text (OR: alpha)	(1)
	time: date/time	(1)

7.3.2	Any one of:	
	• Because the 0 at the beginning of the number will not be displayed • Because one does not do arithmetic calculations with cellphone numbers • Because a cellphone no can contain alphabetic characters • <i>Also accept the following answer:</i> Because a cellphone number stored as a "number" data type would be too large (reference to the largest number that can be stored)	(1)
7.3.3	card number	(1)

[20]

TOTAL: 150**APPENDIX:
SEARCH ENGINES**

1Blink	Brightgate	IAF	MacMillan
2Trom	BrightPlanet	iBound	Yellow Pages
3Potato4	BullsEye	ILF	Magellan
411 Locate	Copernic	Inference	Mamma
411 Now	Copernic	Info Hiway	Match Site
555-1212.com	Cyber411	Info Links	Meta Bug
700 Search	Debriefing	Infomak	Meta Gopher
Engines	Deja.Com	Inforian Quest	Meta Search
7Search	Deoji	98	MetaCrawler
7Search	DevSearch	Information	MetaFind
800Go	Dewa	Access Co.	MSN
Aardvark	Dialog	Information	MultiMeta
About	Dig	Please Almanac	NBCi
About	DirectHit	InfoSeek	NERAC
ABrody's Home	DMOZ	InfoSpace	Nerd World
Page	Dogpile	Inquisit	Media
Acclaim Search	DotComDirectory	Intelliscopes	Net Acer
Ah-ha	EBig	Intelliseek	NetLaunch
Alexa	Ecki	Internav	Netskills
All in One	eDirectory	IQSeek	News Analyzer
All The Web	Electric	IXQuick	Nexor Aliweb
All4One	Library	Jayde	Northern Light
AllCrawl	ePilot	JotBot	NorthernLight
AllDeal	Excite	Jump City	NorthernLight
AllSearchEngine	FindIt!	Kanoodle	Nynex
s.Com	Findit2000	Knowledge	Interactive
AltaVista	FindSVP	Express	Yellow Pages
Amnesi	FindWhat	KnowX	One Seek
Ampleo	Fly-Catcher	Lecktronix	One Source
Ananzi	Four11	Lexis-Nexis	Open Directory
AnyWho	Frequent	Link Centre	Project
AOL	Finders	Link Master	Overture
Ask Jeeves	Frost and	Link Monster	Pageseeker
Bay9	Sullivan	Links2Go	Pathfinder/
Beaucoup	Funkycat	Liszt	Time-Warner
Bigfoot	GenieKnows	Look Smart	PC 411
Bjorgul	Google	Look Up	PortalSeek
Bob Harrold II	GoshDarn!	LookUpUSA	ProFusion
BotSpot(r)	GTE/ BigBook	Lost Link/ Web	Proteus
Brainfox	GuruNet	Links	Rand Radius
Brand New Sites	Highway 61	LYcomm Net	Ref. Desk
	Hoovers	Guide	Reference.Com
	HotBot	Lycos	Reference.Com
	HotRate		Research It

Resource One
Rex
Rocket Links
SavvySearch
Scrub The Web
Search Engine
Colossus
Search Engines
Galore
Search Hound
Search King
Search Page
Search Power
Search Up
Search123
Search4Info
SearchBidder
SearchSpaniel

SearchSpell
Snap
SNAP
Spirit Search
Splat Search
Sprinks
Starting Point
Steve's Guide
Subjex
Super Cyber
Search
Surf Fast
SurfWax
Surfy
Switchboard
The Big Hub
The Search Box
TheNet1

To Crawl
ToggleBot
TopClick
Vital Search
Web Direct
Web Info Search
Web Taxi -
Web World
Internet
Directory
WebAssyst
WebBound
WebCrawler
WebSearch2K
WebVentureHotli
st
What-U-Seek-
Where2Go

White NetPages
Who Where
World Pages
World Wide Web
Worm
WWW Virtual
Library
WWWHunter
XPlore
Yahoo
YellowNet
YellowPages
Yep
Z Search
Zen Search
zInternet

MOONTLIKE ANTWOORDE VIR :

REKENAARSTUDIE NOVEMBER 2003**STANDAARDGRAAD TEORIE (VRAESTEL 2): FINALE****Vraag 1**

1.1.1 A. $A' + 1 = 0 + 1 = 1$ ✓

1.1.2 $(A + A') \cdot (0) = 1(0) = 0$ ✓ (2)

1.2

X	Y	XY' ✓	X + XY' ✓
0	0	0	0
0	1	0	0
1	0	1	1
1	1	0	1

(2)

1.3.1 F sampioen

1.3.2 D aspersie, eiervrug

1.3.3 B aspersie, eiervrug, spinasie, sampioen (6)

[10]**Vraag 2**

2.1.1 ✓ Die skerm word verdeel in beeldpunte
 ✓ Die beeldpunte word gemeet op die *horisontale as* (of: "van links na regs") en op die *vertikale as* (of: "van bo na onder") (2)

2.1.2 **Enigeen** van:
 AGP het direkte toegang tot die hoofgeheue vir die stoor van grafika data
 OF: AGP het 'n toegewyde punt-tot-punt kanaal na die LGE (1)

2.1.3 Enige twee van: (2)

- Het sy eie verwerker wat sommige van die grafika verwerk
- Het baie RAM waarin grafika gestoor word
- Kan 3-D rendering bewerkings doen
- Kan meer tipes toestelle daaraan koppel as 'n IDE (bv. aftaster)

2.2 Universal Serial Bus (slegs USB is aanvaarbaar) (1)

2.3 Enige twee van:
 Data-oordrag is vinniger as deur 'n IDE koppelvlak
 Ondersteun groter hardeskywe
 Kan tot 7 toestelle konnekteer aan 'n SCSI koppelvlak (2)

2.4 Dinamiese RAM en statiese RAM (2)

2.5

	DRAM	SRAM
A. Bestaan uit	kapasitors	transistors
B. Moet verfris word	ja	nee

C. Tipiese hoeveelheid hiervan in hedendaagse rekenaars	256 MB	512 KB
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(6)

2.6 SRAM

(1)

2.7 Databus, adresbus, beheerbus

(3)

2.8 Om data-oordrag te doen tussen die SVE en die rand-apparatuur. (1)

2.9 Data oordrag teen 'n vinniger spoed
Die PCI bus is wyer OF PCI bus dra meer data oor op een slag (2)

2.10 Doen wiskundige en logiese berekenings (2)
✓ Een punt vir "wiskundige berekeninge"; ✓ een punt vir "logiese berekeninge"

2.11

2.11.1 register	D
2.11.2 buffer	A
2.11.3 cache memory	F
2.11.4 CMOS	B
2.11.5 hard disk	C
2.11.6 video RAM	E

(6)

[31]

Vraag 3

3.1

- A stelsel
- B stelsel
- C toepassing
- D toepassing
- E stelsel

(5)

3.2

Enige twee van:

Proses beheer

- Toestel toevoer/afvoer-beheer
- Verskaf koppelvlak met gebruiker

(2)

NB: slegs I/O beheer nie voldoende nie, moet duidelik wees dat dit gaan oor toestelle en nie lêers nie

Wat toestel toevoer/afvoer aanbetref, evalueer die leerder se sinne versigtig: "Beheer drukkers" verkry 'n punt as 'n vorm van toestel toevoer/afvoer. "Beheer drukkers", "beheer data vanaf aftaster" verwys altwee na toestel toevoer/afvoer – dus net een punt vir die twee.

3.3.1 onwaar

3.3.2 onwaar

3.3.3 waar

3.3.4 onwaar

(4)

- 3.4 om die aantal werk wat 'n rekenaar binne 'n gegewe tydspanne kan doen so veel as moontlik te maak
OF: maak die aantal instruksies wat per sekonde uitgevoer word, so veel as moontlik (2)
- 3.5 Een van:
 - maak omkeertyd so kort as moontlik
 - gebruik hulpbronne doeltreffend
(1)
- 3.6 Enige twee van:
 - sagteware is verniet (of baie goedkoop)
 - is 'n baie stabiele stelsel
 - word nie regtig geaffekteer deur virusse nie
 - werk op relatief goedkoop hardeware
 - gebruik beskermde geheue ("protected memory")
 - gebruik pre-emptive multitasking
 - bron-kode is beskikbaar vir veranderinge
 - Linux stelsels werk vinnig as gevolg van doeltreffende gebruik van hulpbronne
 - GUI het baie verskillende opsies
(2)
- 3.7 B (1)
- 3.8 Op die hardeskyf (1)
- 3.9 Enige twee van:
 - Toets of die gebruikersnaam waarmee 'n gebruiker probeer aan-"log" wel op die gebruikerslys bestaan
 - Toets of die gebruiker die korrekte wagwoord ingesleutel het
 - Toets of die gebruiker 'n sekere lêer of "folder" mag sien/uitvoer/verander, voordat die gebruiker toegelaat word om hierdie aksies uit te voer
 - Toets of die gebruiker vanaf 'n sekere rekenaar mag aan-"log"
 - Toets of die gebruiker gedurende 'n sekere tyd van die dag mag aan-"log"
 - Verskaf 'n fasiliteit waardeur spesifieke regte toegeken kan word aan sekere gebruikers, op enige lêers of folders
(2)

[20]

Vraag 4

4.1.1.	C	
4.1.2	F	
4.1.3	G	
4.1.4	A	
4.1.5	E	
4.1.6	D	
4.1.7	B	(7)
4.2.1	ster	
4.2.2	vol dupleks	
4.2.3	passief	

4.2.4	bediener	
4.2.5	topologie	(5)
4.3.1	Twee van: ▪ vinniger data oordrag-spoed ▪ word nie deur weerlig geaffekteer nie ▪ laer "attenuation" (seinverswakking) as koper ▪ nie geaffekteer deur EMI ▪ immuun teen afluistering ▪ word nie warm nie ▪ gelei nie elektrisiteit nie ▪ dun en lig	(2)
4.3.2	Een van: • duur • gekompliseerde installering • ander netwerk-komponente (wat hiermee saam moet geïnstalleer word} is duur	(1)
4.3.3	UTP (or just: twisted pair) koaksiaal	(2)
4.4.1	infrarooi laser	(2)
4.4.2	twee van: • land-mikrogolf • sateliet-mikrogolf • radiogolf	(2)
4.4.3	Globale Area Netwerk	(1)
4.4.4	deurgangspoort ("gateway")	(1)
4.4.5	<i>Let op: Dieselfde item mag nie onder meer as een opskrif genoem word nie. Byvoorbeeld, daaglikse rugsteun kan genoem word onder data sekuriteit of sagteware, maar nie onder beide opskrifte nie.</i> Data sekuriteit: enige van: ▪ stel gebruikersregte op lêers/folders (d.w.s. ken regte tot sekere toe aan 'n spesifieke gebruiker ▪ installeer en/of doen opdatering van virus-lêers ▪ installeer en/of doen instandhouding van "firewall" op die netwerk ▪ doen daaglikse rugsteuning (<i>slegs as nie genoem onder Sagteware</i>) Hardeware: enige van: ▪ stel drukkers, aftasters, ens, op (d.w.s..randapparatuur in netwerk) ▪ maak reg of organiseer die regmaak van hardeware-komponente Sagteware:	(3)

	enige van: ▪ doen daaglikse rugsteuning (<i>slegs as nie genoem onder Data sekuriteit</i>) ▪ installeer nuwe sagteware op die bediener	
4.5	enige twee van: • hardeware is goedkoper ('n bediener is nie nodig nie) • sagteware is goedkoper (hoef nie die bediener-sagteware of lisensies aan te koop nie) • makliker om in stand te hou • makliker om lêers en drukkers te "share"	(2)
4.6	Pakkieskakeling: Enige twee van die volgende feite: • boodskappe word verdeel in pakkies • pakkies kan langs verskeie roetes versend word • pakkies kan verskillende lengtes hê Selskakeling: • vaste konneksie vir 'n kort tydjie • vaste pakkie-grootte	(4)
4.7.1	data word omskep in 'n formaat waaruit dit slegs weer oopgemaak kan word deur middel van 'n sekere kode <i>✓soek vir die konsep van 'n kode – nie dieselfde as 'n wagwoord nie</i>	(1)
4.7.2	hardeware/sagteware stelsel wat ongemagtige toegang tot die netwerk verhoed <i>✓soek vir die konsep van ongemagtigde toegang</i>	(1)
		[34]

Vraag 5

5.1	Nee, want daar is alreeds 'n gebruikernaam "donald" by yahoo, wat behoort aan Donald Abrahams	(2)
5.2	mweb iafrica	(2)
5.3	Verskaf die verbinding tussen die gebruiker se rekenaar en die rekenaars wat saam die Internet verteenwoordig	(1)
5.4.1	Donald Ferreira NB As 'n kandidaat slegs "Donald" skryf, word 'n punt toegeken slegs indien die antwoord vir 5.4.2 korrek is. M.a.w. dit kan vasgestel word dat die kandidaat die domein "worldshoes" en die gebruiker saam korrek vasgestel het.	(1)
5.4.2	Aanvaar enige van: ▪ www.worldshoes.co.za ▪ worldshoes ▪ worldshoes.co.za	(1)
5.5.1	C	(1)
5.5.2	die adres van die webblad	(2)
5.5.3	Enigeen van:	(1)

	• hyperlink • link	
5.5.4	Altavista	(1)
5.5.5	Twee van: excite google yahoo askjeeves dogpile ... vir meer soekenjins, sien die Byvoegsel	(2)
5.6	HTML	(1)
5.7	• sellulêre bandwydte is laag • skerm is te klein	(2)
5.8	Een van: <i>nie aanvaarbaar nie: selfoon WAP selfoon (lees vraag)</i> • PDA • pager • palmtop • notepad	(1)
5.9	Enige twee van: • kan fotos redigeer • kan fotos op 'n mens se rekenaar stoor sonder om hulle eers in te skandeer • kan 'n groot aantal fotos neem • kan die fotos wat jy nie wil hê nie, uitvee (<i>delete</i>) • kan dadelik die fotos kry (hoef nie te wag vir ontwikkeling nie)	(2)

Vraag 6

[20]

6.1	Enige twee van • Vinnig om getalle te bereken in Excel • vinnig om inligting te verwerk in 'n databasis • Kan dokumente maklik verander in Word, sonder om alles oor te tik • Kan verjaardagkaartjies op die rekenaar maak, hoef nie winkels toe te gaan om 'n kaartjie te koop nie • kan 'n rekenaar stel om die tuin nat te gooi, hoef nie op te staan om die spreier oop te draai nie <i>Daar is baie korrekte antwoorde. Hou die volgende in gedagte om te besluit of 'n punt toegeken word of nie:</i> • Verwys die antwoord spesifiek na iets wat ons tyd spaar? (Nie geld, of enigiets anders nie.) • Is die tydsbesparing 'n gevolg van die gebruik van 'n rekenaar? • Die rekenaargebruik wat beskryf word, mag nie 'n vorm van	(2)
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	Internet of e-posgebruik wees nie. (Byvoorbeeld: “ons kan ‘online’ banktransaksies doen” is verkeerd; dit verwys na die Internet, en antwoord nie hierdie spesifieke vraag nie.) Ander korrekte antwoorde:	
6.2	enige twee van: ▪ diefstal van rekenaartyd ▪ die verspreiding van virusse ▪ ongemagtigde veranderinge aan programme ▪ diefstal van data/ ongemagtigde toegang tot ander mense se persoonlike inligting ▪ onwettige kopiëring van sagteware	(2)
6.3	Enige twee van die volgende feite: • word gebruik om die sender (van ‘n boodskap) te identifiseer • ‘n kode word by die boodskap aangeheg • ‘n “hash” kode word gebruik (of: “spesiale kode”) • gebruik ‘n publieke sleutel en ‘n private sleutel	(2)
6.4.1	Enigeen van: • kan minder kassiere hê • kan kliënte lok van banke wat nie Internet-bankdienste het nie • goedkoper vir die bank as die kliënt self sy eie transaksies doen • spaar tyd a.g.v. minder papierwerk . • spaar koste a.g.v. minder papierwerk • kan op dieselfde tydstip ‘n groot aantal kliënte bedien <i>Let op : Nie aanvaarbaar om ‘spaar tyd’ of ‘spaar koste’ te skryf, sonder om te verduidelik hoekom nie</i>	(1)
6.4.2	▪ kan banksake van die huis af doen ▪ kan op enige tyd banksake doen ▪ kan beter ‘n ogie hou op persoonlike finansies a.g.v. vinnige toegang tot inligting oor bankrekeninge ▪ spaar tyd, aangesien ‘n mens nie na die bank hoef te gaan nie	(2)
6.5	• Smart Card het ‘n ingeboude microchip; • kan berekeninge doen en die resultate daarvan stoor ✓	(2)
6.6	Enige twee van: • Telefoonkaart (om publieke telefoon te gebruik)	(2)

	• SIM kaart (in selfoon) • Kaarte om elektrisiteit mee te betaal • Kaart om by tolhek te betaal	
6.7	enige twee van: ◆ inligting nie geskik vir kinders is beskikbaar vir kinders om te sien ◆ inligtings oorlaaiing ◆ moet onderskei tussen inligting wat betroubaar is, en wat nie is nie ◆ moeilik om opvoedkunde aan te pas by die hoeveelheid inligting wat nou beskikbaar is vir kinders ◆ skending van 'n mens se privaatheid, aangesien persoonlike inligting aan ander verskaf word (bv. e-pos adres)	(2)

[15]

Vraag 7

7.1.1	C	
7.1.2	A	
7.1.3	A	
7.1.4	B	
7.1.5	B	
7.1.6	D	(6)
7.2		
7.2.1 Excel	sigblad	• Lotus 1-2-3 • Quattro Pro
7.2.2. Photoshop	grafika, redigering van fotos	• Flash • CorelDraw • CorelPhotopaint • Photodraw • Photosuite • Paintshop Pro • Studio Artist • Painter • Photo Wizard, Paintlet • I.Mage
7.2.3. Quickbooks	rekeningkunde/boekhou	• Pastel, Accpac, Brilliant Accounting • Clearlybookkeeping, • Simply Accounting • Billing Tracker • Quicken
7.2.4 Frontpage	skryf webblaai	• Dreamweaver • Coffeecup • Web Studio 3 • Freeway

7.2.5 Grolier Encyclopedia	ensiklopedie	• Encarta • Encyclopedia Britannica • Oxford Children's Encyclopedia • World Book Encyclopedia • Compton's Interactive Encyclopedia • Hutchinson's Encyclopedia • Webster's Encyclopedia
		(10)
7.3.1	naam: teks (text), alpha tyd: datum/tyd (date/time)	(1) (1)
7.3.2	Enigeen van: • Omdat die 0 aan die begin van die nommer nie vertoon/gestoor sal word nie • Omdat 'n mens nie wiskundige berekeninge gaan doen met selfoonnommers nie • Want 'n selfoonnommer kan alfabetiese karakters in hê • <i>Aanvaar ook die volgende antwoord:</i> Want 'n selfoonnommer as "number" data tipe sal te groot wees (verwysing na grootste getal wat gestoor kan word)	
		(1)
7.3.3	kaartnommer	(1)

[10]

TOTAAL: 150**APPENDIX:
SOEKENJINS**

1Blink
 2Trom
 3Potato4
 411 Locate
 411 Now
 555-1212.com
 700 Search
 Engines
 7Search
 7Search
 800Go
 Aardvark
 About
 About
 ABrody's Home
 Page
 Acclaim Search
 Ah-ha
 Alexa
 All in One
 All The Web
 All4One
 AllCrawl
 AllDeal

AllSearchEngine
 s.Com
 AltaVista
 Amnesi
 Ampleo
 Ananzi
 AnyWho
 AOL
 Ask Jeeves
 Bay9
 Beaucoup
 Bigfoot
 Bjorgul
 Bob Harrold II
 BotSpot(r)
 Brainfox
 Brand New Sites
 Brightgate
 BrightPlanet
 BullsEye
 Copernic
 Copernic
 Cyber411
 Debriefing
 Deja.Com
 Deoji
 DevSearch
 Dewa

Dialog
 Dig
 DirectHit
 DMOZ
 Dogpile
 DotComDirectory
 EBig
 Ecki
 eDirectory
 Electric
 Library
 ePilot
 Excite
 FindIt!
 Findit2000
 FindSVP
 FindWhat
 Fly-Catcher
 Four11
 Frequent
 Finders
 Frost and
 Sullivan
 Funkycat
 GenieKnows
 Google
 GoshDarn!
 GTE/ BigBook

GuruNet
 Highway 61
 Hoovers
 HotBot
 HotRate
 IAF
 iBound
 ILF
 Inference
 Info Hiway
 Info Links
 Infomak
 Inforian Quest
 98
 Information
 Access Co.
 Information
 Please Almanac
 InfoSeek
 InfoSpace
 Inquisit
 Intelliscope
 Intelliseek
 Internav
 IQSeek
 IXQuick
 Jayde
 JotBot

Jump City	Nerd World	Scrub The Web	TopClick
Kanoodle	Media	Search Engine	Vital Search
Knowledge	Net Acer	Colossus	Web Direct
Express	NetLaunch	Search Engines	Web Info Search
KnowX	Netskills	Galore	Web Taxi -
Lecktronix	News Analyzer	Search Hound	Web World
Lexis-Nexis	Nexor Aliweb	Search King	Internet
Link Centre	Northern Light	Search Page	Directory
Link Master	NorthernLight	Search Power	WebAssyst
Link Monster	NorthernLight	Search Up	WebBound
Links2Go	Nynex	Search123	WebCrawler
Liszt	Interactive	Search4Info	WebSearch2K
Look Smart	Yellow Pages	SearchBidder	WebVentureHotli
Look Up	One Seek	SearchSpaniel	st
LookUpUSA	One Source	SearchSpell	What-U-Seek-
Lost Link/ Web	Open Directory	Snap	Where2Go
Links	Project	SNAP	White NetPages
LYcomm Net	Overture	Spirit Search	Who Where
Guide	Pageseeker	Splat Search	World Pages
Lycos	Pathfinder/	Sprinks	World Wide Web
MacMillan	Time-Warner	Starting Point	Worm
Yellow Pages	PC 411	Steve's Guide	WWW Virtual
Magellan	PortalSeek	Subjex	Library
Mamma	ProFusion	Super Cyber	WWWHunter
Match Site	Proteus	Search	XPlore
Meta Bug	Rand Radius	Surf Fast	Yahoo
Meta Gopher	Ref. Desk	SurfWax	YellowNet
Meta Search	Reference.Com	Surfy	YellowPages
MetaCrawler	Reference.Com	Switchboard	Yep
MetaFind	Research It	The Big Hub	Z Search
MSN	Resource One	The Search Box	Zen Search
MultiMeta	Rex	TheNet1	zInternet
NBCi	Rocket Links	To Crawl	
NERAC	SavvySearch	ToggleBot	