MARKING MEMORANDUM

CAT GR 10 – MODEL – Paper II

Question 1.1 – Matching items

1.1.1	E ✓	GIF
1.1.2	L ✓	RAM
1.1.3	F ✓	HTTP
1.1.4	H ✓	MB
1.1.5	M ✓	ROM
1.1.6	K ✓	PPM
1.1.7	B ✓	DVD
1.1.8	I ✓	MP3
1.1.9	C ✓	GB
1.1.10	D ✓	GHz

(10 x 1) = **[10]**

Question 1.2 – Multiple choice

1.2.1	D	✓	(1)
1.2.2	C	✓	(1)
1.2.3	C	✓	(1)
1.2.4	B	✓	(1)
1.2.5	D	✓	(1)

(5 x 1) = **[5]**

Total : [15]

SECTION B

QUESTION 2

2.1	The specification refers to the viewing size of the monitor measure diagonally across the screen. ✓ This would imply improved image quality, easier to work with drawings sketches etc. ✓	(2)
2.2	An operating system is needed (not listed in advert). ✓	(1)
2.3	Yes, ✓ more memory implies that that more programs/data can be held in memory at a time which leads to faster processing as items don't need to be fetched from slower storage. ✓	(2)
2.4.1	A modem converts the computer's digital signal to analogue signal✓ and vice versa ✓	(2)
2.4.2	The 56 K refers to the maximum transmission speed of the modem. ✓	(1)

2.5	Any **TWO** of: ✓ ✓
	     Speed (ppm)
	     Quality of output (dpi)
	     Colour or black and white (mono)
	     Running costs
	     Paper sizes it can handle
	     Warrantee
	     Type of connection etc.
		(2)

2.6	Any **THREE** of: ✓ ✓✓
	
	     Spreadsheet
	
	     Database
	
	     Word processor
	
	     Presentation graphics
	
	     E-mail/communications program
		(3)

2.7	Most packages are downwards compatible meaning that files created with older version of the package can still be read by newer versions of the package. ✓ The converse is not necessarily true. ✓	(2)

2.8	Yes, ✓if file was deleted from the hard drive, it can be found in the Recycle Bin folder and restored from there. ✓	(2)
2.9	Any **FOUR** of: ✓ ✓✓✓ • Faxes are impractical for long documents. • It is easier to send to multiple recipients using e-mail. • Dial up-connections imply only costs of a local phone call cf. overseas calls. • No running costs in terms of paper and toner. • Documents can be processed, filed and replied to electronically • E-mail provides flexibility for exchange of messages between recipients when away from a physical address. • No need for a separate or dedicated phone line. • Faxes can be read by anyone at point of reception. • Services exist to receive faxes via e-mail and vice versa. • Fax machines take up space etc.	(4)

2.10	Any **TWO** of: ✓✓ Use AND operators / Search on whole phrase. Restrict search to South African domain Try and use a more specific search phrase including the area for example. Limit search to recently created entries etc.	(2)
2.11	Any **THREE** of: ✓✓✓	

		Look at general accuracy of spelling and grammar. Inspect the website's URL which will give clues if it is a personal or 'sponsored' page. Check to see if sources are documented with footnotes or links. Is the site full of pop-up advertisements? Are authors' details and credentials available to verify? Check if the webpage is current etc.	(3)
		Total :	**[26]**

QUESTION 3

3.1.1	Some form of image viewer / photo editing utility program ✓	(1)
3.1.2	Not on stiffy disk which has only has a capacity of 1.44 MB ✓ Yes for flash disk where the capacity (512 MB) is greater than size of file (approximately 9 MB) ✓	(2)
3.1.3	Compress ('zip') the file. ✓ Change file format to lower resolution or a different format such as jpeg / jpg / bmp. ✓	(2)
3.2	Shortcuts save time when having to locate or navigate to resource. ✓ A shortcut is a link to any item accessible on your computer or on a network, such as a program, file, folder, disk drive, Web page, printer, or another computer. ✓	(2)
3.3	The word-processor stores items that have been copied in a temporary storage ✓ location called the clipboard. These items remain on the clipboard until the word processing program is closed. ✓	(2)
3.4	Any THREE of: ✓✓ Spreadsheet has more extensive formulas that can be used. Automatic recalculation of results when changes are made. Extensive graphing facilities. Easy to do scenario / "what-if" analysis.	(3)
3.5	Any THREE well founded relevant comments such as: ✓✓✓ New types of jobs are being created. Technology can be used as a tool to empower small companies / individuals Technology provides growth with access to world markets etc.	(3)

3.6.1	A computer virus is a program ✓ that copies itself ✓ and can "infect" other programs by modifying them or the environment of the computer ✓	(3)
3.6.2	No, viruses do not affect hardware directly. ✓ It could be a virus affecting the software controlling the hardware (printer) but it is more likely a simple software error. ✓	(2)

3.7 3.7.1		Any **TWO** of : ✓✓ Virtual Universities Tutorials - Teaching / Learning Research Intranet linking – various educational institutions Learner records Financial management	(2)
	3.7.2	Any **TWO** of : ✓✓ Research Blood Analysis Laser treatment Virtual Surgery Patient records Medical Aid records / Finances	(2)
		Total :	**[24]**

QUESTION 4

4.1 4.1.1	RAM can be read from and written to, while ROM can only be read from OR RAM is volatile and ROM is non-volatile. ✓	(1)
4.1.2	Contain boot-up instructions to load the operating system. ✓	(1)

4.2.1	Any TWO of: ✓✓
	    Low capacity.
	    Slow
	    Unreliable
	    Have been superceded by media with higher capacities such as flash disks etc.
		(2)

4.2.2	512 MB ÷ 1.44 Mb = approximately 355 ✓ ✓	(2)

4.2.3	Any TWO of: ✓✓
	    Speed
	    Plug and Play capability
	    Universal standard
	    Can connect multiple devices.
		(2)

4.2.4	Any ONE of ✓ Printer, flash disk, digital camera, mouse, etc	(1)
4.3.1 & 4.3.2	CPU/processor Performs calculations needed to process data Hard drive Main storage medium for permanently storing programs and data RAM/memory Temporary storage area for programs and data being processed ✓✓✓ ✓✓✓	(6)

4.4	Any TWO of: ✓✓
	    Cuts out costs of developing film and printing
	    Small and relatively cheap
	    Can view photo immediately / eliminates 'mistakes'
	    Can take more images at a time than when using film
	    Being digital, it can be manipulated or sent via e-mail etc.
		(2)

4.5.1	Bluetooth means that the keyboard communicates with the PC via radio/wireless. ✓ QWERTY refers to a 'standard' keyboard layout because of the first 6 letters on the first row. ✓	(2)
4.5.2	Ergonomics broadly refers to the ease of use and comfort in terms of its design.✓ Feature could be wrist support or a curved/split keyboard,etc. ✓	(2)
4.6.1	Optical refers to the mechanism i.e. using light instead of a ball and does not necessarily mean it is cordless. ✓ Infrared means that it communicates with the PC cordlessly using infra-red light. ✓	(2)

4.6.2	Any TWO of: ✓✓
	    Does not need a mouse pad to work effectively as is the case with a ball/mechanical mouse.
	    Can be used on any surface, not necessarily a flat rectangular surface.
	    Does not get sticky or need cleaning.
	    More accurate/ smooth etc.
		(2)

4.7	The hard drive is a self-contained fixed size (generally non-removable) disk.✓ CD and DVD drives use removable media which have fixed sizes. ✓	(2)
	Total :	**[27]**

QUESTION 5

5.1	Any ONE of ✓ Pastel, Brilliant Accounting, Quick Books, etc.	(1)
5.2	Any TWO typical hardware requirements: ✓✓ Minimum amount of RAM Minimum amount of free hard drive space Specific type or category of graphics card Certain peripherals e.g. wheel mouse etc. Specific adapter cards / controllers e.g. for sound etc.	(2)
5.3	Any ONE software requirement. ✓ Type of operating system (platform) Particular drivers etc.	(1)
5.4	Minimum requirements are the lowest requirements needed for the program to run ✓ Recommended requirements are the specifications for the program to run optimally. ✓	(2)
5.5	A **full** install will install all components of the package automatically. ✓ A **custom** install allows a user to choose which options he or she wishes to install. ✓	(2)
	Total :	**[8]**

GRAND TOTAL : 100