

## 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 <b>TWO</b> 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 <b>THREE</b> 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	<p>Any <b>FOUR</b> of: ✓ ✓✓✓</p> <ul style="list-style-type: none"> <li>• Faxes are impractical for long documents.</li> <li>• It is easier to send to multiple recipients using e-mail.</li> <li>• Dial up-connections imply only costs of a local phone call cf. overseas calls.</li> <li>• No running costs in terms of paper and toner.</li> <li>• Documents can be processed, filed and replied to electronically</li> <li>• E-mail provides flexibility for exchange of messages between recipients when away from a physical address.</li> <li>• No need for a separate or dedicated phone line.</li> <li>• Faxes can be read by anyone at point of reception.</li> <li>• Services exist to receive faxes via e-mail and vice versa.</li> <li>• Fax machines take up space etc.</li> </ul>	(4)
2.10	<p>Any <b>TWO</b> of: ✓✓</p> <p>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.</p>	(2)
2.11	Any <b>THREE</b> of: ✓✓✓	

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

**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)

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

**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)

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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)
<b>Total :</b>		<b>[27]</b>



**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 <b>full</b> install will install all components of the package automatically. ✓  A <b>custom</b> install allows a user to choose which options he or she wishes to install. ✓	(2)
<b>Total :</b>		<b>[8]</b>

**GRAND TOTAL : 100**