



PREPARATORY EXAM 2015

COMMON EXAM

GRADE 12

MEMORANDUM

SUBJECT	:	CAT PAPER 2
TIME	:	3 HOURS
MARKS	:	150

This memorandum consists of 9 pages

QUESTION 1

1.1	J	1
1.2	P	1
1.3	Q	1
1.4	N	1
1.5	O	1
1.6	F	1
1.7	C	1
1.8	R	1
1.9	H	1
1.10	L	1
		10

QUESTION 2

2.1	B	1
2.2	D	1
2.3	B	1
2.4	C	1
2.5	D	1
2.6	A	1
2.7	A	1
2.8	B	1
2.9	D	1
2.10	D	1
		[10]

QUESTION 3

3.1	True	1
3.2	False – Network utility	1
3.3	True	1
3.4	False – Validation rule	1
3.5	False – Phishing	1
		5

TOTAL SECTION A [25]

QUESTION 4

4.1.1	ULV is a Ultra low voltage processor ✓ that is deliberately under clocked to use less power at the expense of performance ✓	(2)
4.2	3.1 GHz ✓	(1)
4.3.1	RAM ✓	(1)
4.3.2	The primary memory has direct access to the CPU, where secondary memory does not have direct access to the CPU. ✓	(1)
4.4	It is easy accessible / it can't get lost / impossible to steal, etc. ✓ (any relevant ONE)	(1)
4.5	Open source software is free software ✓ that can be downloaded from the internet. ✓	(2)
4.6.1	Ethernet ✓ • A protocol that is in place to control the passing of information. OR • To avoid simultaneous transmission by two or more systems. ✓	(2)
4.6.2	Business – can connect to any LAN network to gain access to data or files / sharing of information. ✓ Personal – can connect to a LAN network to play LAN games against one another / sharing of photo's ✓	(2)
4.7.1	It indicates that the Notebook has Wi-Fi capability. ✓	(1)
4.7.2	Wifi standard (each with different speeds, distance, etc). ✓	(1)
4.8	Sometimes during typing a document a part of your hand/ wrist will touch the touch pad and move the cursor without you noticing and then you find typing errors ✓ / If the touch pad gets damaged it is expensive to replace ✓	(2)
4.9	More internal memory will be available It assist the with the processing of the CPU, etc ✓ (any ONE)	(1)
4.10	DVD can only store 4.7 GB of data – Blue Ray DVD store 27 GB ✓ More difficult to copy a Blue Ray disk versus a normal DVD ✓ (refer to table below) The primary copy protection system used on both formats is the Advanced Access Content System (<u>AACS</u>). Other copy protection systems include:	

	<u>Blu-ray Disc</u> • <u>HDCP</u> encrypted digital output • ROM-Mark watermarking technology (physical layer) • BD dynamic crypto (<u>BD+</u>) • Cinavia Digital Mark	<u>HD DVD</u> • <u>HDCP</u> encrypted digital output	
	Normal DVD is cheaper than a Blue Ray DVD	(any two)	(2)
4.11.1	Assist in administrative work (printing, scanning) ✓ Assist in communication (faxing) ✓		(2)
4.11.2	22 ppm ✓		(1)
4.11.3	The quality of the printing (dot per inch) ✓		(1)
4.11.4	Making posters to advertise or for larger signs / printing designs ✓		(1)
4.11.5	Wi-Fi / Bluetooth ✓		(1)
			[25]

QUESTION 5

5.1.1	Setting up email / hosting webpages / blocking spam / provide online technical support/ fax to email ✓✓ (any relevant TWO)	(2)
5.1.2	Support available / price / what the ISP can provide ✓✓ (any relevant TWO)	(2)
5.2	Speed of the line/ limit of CAP / Shaped or Unshaped ✓✓ (any relevant TWO)	(2)
5.3	Shaped connection is when the user have specific demands for setting up the connection for example if the person wants only email or VoIP. ✓ Unshaped connection is the same as all the rest. ✓	(2)
5.4.1	Wi-Fi is making use of radio waves. ✓	(1)
5.4.2	By making use of the anti-virus program on his computer. Password protection; Firewall protection ✓(any relevant answer)	(1)
5.4.3	When a user is on Wi-Fi you are making use of radio waves. It is not a secure connection. There is a lot of software that one can download to hack people while they are on Wi-Fi. ✓ (any relevant answer)	(1)

5.5	Most smartphone's have the ability to become a hotspot ✓ Configure the phone to serve as a Wi-Fi zone – set up a secure hotspot and provide a password to those you want to connect. ✓	(2)
5.6.1	People are getting more familiar with Skype / Skype is cheaper to use to make video calls / phone calls / Skype can be loaded on smartphones so more people have direct access to the program / Skype can be used to send photo's / large file. ✓ (any relevant answer)	(1)
5.6.2	The typing feature / the pop up function, immediately being notified that you have a message / sending large files or documents immediately. ✓ (any relevant answer)	(1)
		[15]

QUESTION 6

6.1	Plagiarism is the practice of taking someone else's work or ideas and passing them off as one's own. ✓	(1)
6.2	Plagiarism software ✓	(1)
6.3	Give clear instructions on how to fill in the form ✓ Provide enough space for recipient's to write down the answer. ✓ etc.	(2)
6.4	Interviews ✓	(1)
6.5	text file (.txt) csv file ✓	(1)
6.6	Introduction, Body, Conclusion. (have to mention all THREE) ✓	(1)
6.7	The functions and formulas help to convert data into stats ✓ The graph-function assist in presenting the project. ✓	(2)
6.8	It is important to indicate the resources used / assist with authenticity of your work. ✓	(1)
		[10]

QUESTION 7

7.1.1	AUP improves discipline in a computer lab. AUP stipulates the rules and responsibilities of the users making use of the lab. Rules entering the centre / rules for logging in. / Rules on how to keep the centre tidy / Rules for making use of external storage devices. ✓✓ (any TWO relevant answers)	(2)
7.2.1	Telecommuting is when people work from their homes ✓ and make use of computer technology to communicate with clients and run their business smoothly. ✓	(2)
7.2.2	People will not be entirely focused on the task that needs to be completed. Productivity levels can drop because the focuses are based on other matters. Misused of company resources for personal use. Incorrect claiming of hours/resources, etc ✓✓ (any TWO relevant answers)	(2)
7.3	A keylogger records keystrokes to obtain password or personal information and being send to a third party without your knowledge. ✓ Making use of the onscreen keyboard and number pad ✓	(2)
7.4	Learn to read faster and accurate, and to be able to identify keyboard concepts in what you read / Learn to analyse and compare resources / Approach information in an orderly and discipline manner / Use RSS feeds / Filter emails / Learn to use search tools effectively ✓✓ (any TWO relevant answers)	(2)
		[10]

QUESTION 8

8.1	When FIRST using a file, you will have to make use of Save as to ensure that the file name and file extension is correct. Save is being used when you work on a file and just want to save the work that was done. ✓	(1)
8.2	When the educator wants to give you electronic feedback for e.g. when you hand in your PAT for the educator to go through. ✓	(1)
8.3	Assisting with typing when you do not want to use the tab-function. ✓	(1)

8.4	'1' → "1" <tr> at the end must be </tr> </table> must be closed (any two) ✓✓	(2)
8.5	ROUNDDOWN(4.87,1) will round down to the nearest number chosen e.g. 4.8 ✓ ROUNDUP(2.3,0) will round up to the nearest whole e.g. 3 ✓	(2)
8.6.1	=500 – C3 ✓ (if learners have used =sum (500-C3) it is incorrect.)	(1)
8.6.2	=IF ✓ (C3>=300 ✓, "Green", "")✓	(3)
8.6.3	Sumif ✓	(1)
8.7.1	Student number (field) ✓	(1)
8.7.2	Prevent duplicate values ✓	(1)
8.8	The read only attribute of the file can be activated / the file can be saved as a read only file. ✓	(1)
		[15]
	TOTAL SECTION B:	75

QUESTION 9

9.1	SOHO refers to Small Office Home office ✓ It is determine by the type of business ✓	(2)
9.2.1	A forum is an online discussion ✓	(1)
9.2.2	To ensure it is a human being on the other side of the computer ✓ It helps to prevent SPAM ✓	(2)
9.2.3	It a computer generated program ✓ that run over the internet with the intent to cause harm. ✓	(2)
9.3	Free advertising of his business More people will be able to view his business if he do online marketing People will be able to find his contact details and contact Johnny if they are interested in his assistance. ✓✓ (any relevant TWO)	(2)
9.4.1	QR – Quick Response. It a machine readable code made up of an array of white and black blocks. ✓	(1)

9.4.2	QR generating software or app that can be downloaded. ✓	(1)
9.4.3	QR codes links directly to the URL of his business ✓ QR codes can also direct to an email sent to: so people can email Johnny. / QR codes can also capture cell phone numbers ✓	(2)
9.5	Phablet is half smartphone and tablet. ✓ Johnny can update his website with phablet. / He can send emails / Load apps to assist him with business features. ✓ He will be able to access the cloud/download information needed for the meeting/making phone call, etc (any TWO relevant answers)	(2)
9.6.1	The attachment may be too large ✓ Email address of recipient might be incorrect or wrongly typed ✓	(2)
9.6.2	Create a contact group ✓ from the address list ✓	(2)
9.7.1	Hibernation is a power-saving state designed primarily for laptops. While sleep puts your work and settings in memory and draws a small amount of power ✓ hibernation puts your open documents and programs on your hard disk, and then turns off your computer. ✓	(2)
9.7.2	A screensaver is a computer program that blanks the screen or fills it with moving images or patterns when the computer is not in use. Initially designed to prevent phosphor burn-in on CRT and plasma computer monitors (hence the name), screensavers are now used primarily for entertainment, security or to display system status information. ✓	(1)
9.7.3	A back/trap door is an undocumented way of gaining access to a program. ✓	(1)
9.8.1	A colour laser printer ✓ because it is a design business ✓	(2)
9.8.2	Printer can be off / there can be a paper jam / Johnny did not select the correct printer / there might be no paper in the paper tray ✓✓ (any TWO relevant answers)	(2)
9.8.3	The default printer is the printer the computer automatic select / one can set a specific printer as default printer. ✓	(1)
9.9	Fingerprint scanner / hand geometry ✓✓	(2)

9.10.1	No. Bug – programming clinch/error. Virus – malicious software/malware with intend to harm/damage. ✓✓	(2)
9.10.2	Patch or Service pack ✓	(1)
9.11.1	Johnny needs to set up a Wi-Fi protected setup certification ✓ Johnny needs to set and change the Wi-Fi password on a regular basis. ✓	(2)
9.11.2	WIMAX provides longer wireless internet connection over a longer distance than normal Wi-Fi. ✓	(1)
9.12	Make use of friendly navigation / make use of Hyperlinks/ make use of tables / ensure you choose an appropriate colour / do not make the website too busy and cluttered with information. (any THREE relevant answers) ✓✓✓	(3)
9.13	What you see om an e-commerce site is not always what you get You have no guarantee that the person is authentic on the other side Not all e-commerce sites are authentic ✓✓ (any relevant TWO)	(2)
9.14	Manage and update the network / create user profiles ✓✓	(2)
9.15.1	Any computer material that is thrown away ✓	(1)
9.15.2	Recycle ink cartridges / try to safe paper / don't just throw away old computers and printers – there is companies that can be contacted to buy it from the company. ✓✓	(2)
9.16.1	Once every twee weeks / once a month ✓	(1)
9.16.2	In a case where your computer get stolen / crashes / virus infection ✓ (any ONE relevant answer)	(1)
9.16.3	Make use of cloud computing ✓ Saving the work on an external storage device and lock it in a strong room or safe. ✓	(2)
TOTAL SECTION C:		[50]
GRAND TOTAL:		[150]