



GRADE 11

TERM 2

CAT

THEORY EXAM

MEMORANDUM

COMPUTER APPLICATIONS TECHNOLOGY**GRADE 11****TERM 2: THEORY EXAM 2019****MEMORANDUM****SECTION A****QUESTION 1: MULTIPLE CHOICE**

1.1	A
1.2	D
1.3	B
1.4	C
1.5	C
1.6	A
1.7	B
1.8	B
1.9	C
1.10	B

[10]**QUESTION 2: TRUE OR FALSE**

	ANSWER	CORRECTION	
2.1	TRUE ✓		(1)
2.2	FALSE	Ctrl ✓	(1)
2.3	FALSE	Hardware ✓	(1)
2.4	FALSE	Hibernation / Sleep Mode ✓	(1)
2.5	TRUE ✓		(1)
			[5]

QUESTION 3 MATCHING COLUMNS

3.1	N
3.2	G
3.3	K
3.4	M
3.5	C
3.6	B
3.7	H
3.8	I
3.9	F
3.10	E

[10]**TOTAL SECTION A: 25****SECTION B****QUESTION 4: System Technologies**

4.1	There is a variety of ways to communicate instantly, ✓ regardless of the physical distance between the sender and recipient of a message. ✓	(2)
4.2	Any TWO ✓ ✓ Input, process, output, save (store)	(2)
4.3	Any TWO ✓ ✓ <ul style="list-style-type: none"> • Screen to sleep mode if there is no activity. • Decrease brightness of screen. • Set balance between use of electricity and performance. 	(2)
4.4	<ul style="list-style-type: none"> • <u>Colour depth</u>: The higher the number that represents the colour depth the higher is the number of colours the scanner is able to distinguish ✓. A picture of higher quality is therefore created. • <u>Resolution</u> is determined by the number of pixels; the higher the number of pixels the better the quality ✓ of the scanned image 	(2)
4.5	Any TWO ✓ ✓ Motherboard, CPU, RAM, ROM	(2)

4.6	Any TWO ✓ ✓ <ul style="list-style-type: none"> Scanning of prices at a shop/ barcodes. Scanning RFID tags at events like Comrades. Number plates of cars at e-toll system. <i>(Note: Accept any correct answer that refers to scanning)</i>	(2)
4.7	<u>Digital zoom</u> : enlargement function ✓ which does not provide quality photo's when zoomed in too closely. <u>Optical zoom</u> : lenses on camera brings camera closer to object ✓, better quality photos are taken.	(2)
4.8	The work that was not saved, will be lost/disappear. ✓	(1)
4.9	Plug-and-play. ✓	(1)
4.10	Right click on storage medium. ✓ Click on Properties. ✓ Free space in pink/blue indicates how much is available. ✓	(3)
4.11	Any TWO reasons ✓ ✓ <ul style="list-style-type: none"> Keeping the only copy of data on portable storage is risky as it can be easily lost, stolen or damaged. Keeping the flash disk permanently connected means that the data can easily be erased (either by accident or intentionally). The backups should be kept away from the computer (preferably off-site) in case of theft, fire, etc. 	(2)
4.12	Any TWO ✓ ✓ <ul style="list-style-type: none"> She must first connect to the Internet before she has access to the data. There could be a cost involved and the payment can be in a foreign currency. Data security is a potential problem. 	(2)
4.13	Technology used: Near Field Communication (NFC). ✓ <u>Advantage to the user</u> : It allows the user to simply swipe a smart phone (or smartwatch) over a payment point to complete a payment without using a credit card or typing in a PIN. ✓	(2)
		[25]

QUESTION 5: Internet and Network Technologies		
5.1	Any THREE ✓ ✓ ✓ <ul style="list-style-type: none"> • Passwords. • Encryption. • Backup to cloud storage. • Backup to an external medium stored in a safe place. 	(3)
5.2	Any THREE ✓ ✓ ✓ <ul style="list-style-type: none"> • His password should consist of the following: • Capital letters, lower case letters, numbers and symbols. • Avoid anything about him that is easy to guess. • Avoid keyboard patters like 'asdf' and '1234' <p><i>(Note; Do not accept 'Minimum of 8 characters' as the base of the password already has 9 characters)</i></p>	(3)
5.3	Any TWO ✓ ✓ <ul style="list-style-type: none"> • There is no need for a LAN/WLAN. Only she in the small space office. • A LAN/WLAN can be expensive to install and maintain. • A network administrator is often necessary to manage the network. • Network security must be maintained to ensure that the data on the network is kept secure. • If the file server is faulty, no one can access their files. 	(2)
5.4	Typography is the placing and formatting of text on a webpage. ✓ Any TWO ✓ ✓ <ul style="list-style-type: none"> • It could be the length of a line of text that runs across the page, • the type and size of the font, • the amount of space between letters, words, lines and paragraphs, • and the use of punctuation. 	(3)
5.5.1	Spyware ✓	(1)
5.5.2	A keylogger is software that tracks and records keystrokes as you type. ✓ The danger it poses is to find out what the usernames, passwords and PINs of the user are. ✓	(2)
5.6	Adware is 'free' software that is not really free – it is ad-sponsored. This means that the program keeps on popping up adverts. ✓	(1)
		[15]

QUESTION 6: Information Management		
6.1	Developer tab. ✓	(1)
6.2	There is no definite answer and is therefore difficult to capture and process. ✓	(1)
6.3	Can be answered directly with facts. ✓	(1)
6.4	It is not clear in which case (Yes or No) the respondent should go to Question 9. ✓	(1)
6.5	There is a potential misuse of information. ✓	(1)
6.6	Any THREE ✓ ✓ ✓ <ul style="list-style-type: none"> • Emphasize important words using boldface or italics. • Be concise and check grammar and spelling. • Leave adequate space for respondents to give their responses. • The form should not look cluttered. • Number the questions clearly. • Electronic forms can be created in MS Word. 	(3)
6.7	Anybody can publish on the Internet. ✓	(1)
6.8	The group/person you are trying to inform or report to. ✓	(1)
		[10]
QUESTION 7: Social Implications		
7.1	Any TWO ✓ ✓ <ul style="list-style-type: none"> • Eye tracking devices • Head movement devices • Large key (outsized) keyboards • Large trackballs • Joysticks • Foot pedal control devices • Sip and puff devices <p><i>(Note: Do not accept any answer that is not related to poor motor control)</i></p>	(2)
7.2	Sticky keys are designed for people who have difficulty holding down two or more keys simultaneously and enables the user to enter key combinations by pressing keys in sequence rather than simultaneously. ✓	(1)

7.3	Skimmer ✓ and a video camera ✓	(2)
7.4	A <u>validation rule</u> specifies a range/set of values ✓ that may be entered ✓ into a field in a database. (Note: Also accept the opposite – values not permitted by the validation rule cannot be entered.)	(2)
		[7]
QUESTION 8: Solution Development		
8.1.1	Any TWO ✓ ✓ <ul style="list-style-type: none"> Line 3: There is not a <u>head</u> element; must be before title and after closing tag for title element; <head> <title>....</title><head> Line 4 or 5: There is no opening <u>body</u> tag: <body> Line 5: <u>Heading</u> must read: <h1> and closing </h1> Line 7: <u><p></u> not closed: </p> Line 12 or 13: No closing tag for <u>list items</u>: 	(2)
8.1.2	An ordered list has numbers or symbols ✓ where an unordered list has bullet points. ✓	(2)
8.1.3	To add a comment ✓ to the HTML-code that will not be displayed in a browser. ✓	(2)
8.2	Any THREE ✓ ✓ ✓ <ul style="list-style-type: none"> Designed to work with structured records. Excellent reporting facilities. Powerful querying facilities. Better data validation tools. Can design appropriate data capture forms. Can export data to various forms. 	(3)
8.3	Absolute cell reference. ✓	(1)
8.4	The <u>COUNTIF function</u> counts the number of cells that meet a specified criterion. ✓ The <u>SUMIF function</u> sums the values that meet specified criteria. ✓	(2)
8.5	Format the heading with the same style used to format the existing headings. ✓ Update the table of contents. ✓	(2)
		[14]
TOTAL SECTION B		71

SECTION C		
QUESTION 9		
9.1.1	Any TWO ✓ ✓ Takes up less space. Can be used in places where electricity is not immediately available. Designed to be portable/mobile. Can be used for Internet connectivity at hotspots.	(2)
9.1.2	The small screen of 35 cm is an hint of a portable computer. ✓	(1)
9.1.3	Windows 10 Professional. ✓	(1)
9.1.4	Any ONE ✓ <ul style="list-style-type: none"> Provides better quality images that is digital. Interface that transmits high definition video and audio via a single cable which could be connected to an external TV screen. 	(1)
9.1.5	Any TWO ✓ ✓ <ul style="list-style-type: none"> Write at a lower speed. Make sure there is enough storage space to create an image for the disc. Try not to use the computer while the writing process is busy. 	(2)
9.1.6	A card reader allows different portable storage or memory cards to be plugged in ✓ to be read and written to. ✓	(2)
9.1.7	It is where any running program and its data ✓ is temporarily ✓ stored. <u>OR</u> It is where the CPU ✓ goes to fetch the instructions and data that it needs to work on. ✓	(2)

9.2	1920 x 1080	Resolution ✓ Number of horizontal and vertical pixels the screen can display. ✓	(8)
	8 000 00:1	Contrast ratio ✓ Difference between darkest black and whitest white. / The higher the contrast ratio, the clearer and sharper the image. ✓	
	5 ms	Response time ✓ How quickly the monitor updates the pixels in milliseconds. ✓	
	16:10	Aspect ratio ✓ The relationship between the width and height of the screen. ✓	
9.3	<p><u>Backlit</u>: the keys are illuminated for better visibility in low light environments / under the keys there are a light that illuminates the key characters in the dark. Useful when you type at night. ✓</p> <p><u>Numeric keypad</u>: It is the 17-key section of a standard computer keyboard, usually on the far right / A separate set of keys that contain the numbers 0 through 9 and a decimal point arranged as an as an adding machine. ✓</p>		(2)
9.4.1	AUP Acceptable Use Policy. ✓		(1)
9.4.2	Outlines the rights and responsibilities of any network user. ✓		(1)
9.4.3	Ethernet. ✓		(1)
TOTAL SECTION C			[24]
TOTAL: 120			