



Province of the
EASTERN CAPE
EDUCATION

**NATIONAL
SENIOR CERTIFICATE**

GRADE 11

NOVEMBER 2019

**COMPUTER APPLICATIONS TECHNOLOGY P2
MARKING GUIDELINE**

MARKS: 150

This marking guideline consists of 11 pages.

SECTION A**QUESTION 1: MULTIPLE-CHOICE**

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

[10]**QUESTION 2: MATCHING ITEMS**

- 2.1 J
- 2.2 O
- 2.3 P
- 2.4 B
- 2.5 E
- 2.6 L
- 2.7 N
- 2.8 C
- 2.9 G
- 2.10 I

[10]**QUESTION 3: TRUE/FALSE ITEMS**

(Note to marker: In Question 3.1, 3.3 and 3.4, accept the correct term even if false is not stated. Do NOT award a mark if only FALSE is written down.)

- 3.1 False – Operating system (1)
 - 3.2 True (1)
 - 3.3 False – Shareware (1)
 - 3.4 False – Radio button (1)
 - 3.5 True (1)
- [5]**

TOTAL SECTION A: 25

SECTION B

QUESTION 4: SYSTEM TECHNOLOGIES

4.1	MEMORY		STORAGE		4	4
	Capacity	1 GB ✓	160 GB ✓			
	Difference	Temporary ✓ Needs electricity Electronic and fast (Any ONE)	Permanent ✓ No electricity needed Mechanical and slow (Any ONE)			
4.2	4.2.1	Bluetooth ✓ and Infrared ✓			4	6
	4.2.2	BLUETOOTH		INFRARED		
		(a) Range of pick-up	Longer ✓	Shorter ✓		
		(b) Line of sight	No line of sight necessary ✓	Must be in line of sight ✓		
4.3	4.3.1	A software 'bug' is a programming error in the code or logic of a computer program which happens when the software is being created. ✓			1	3
	4.3.2	<u>Patch</u> : An update to fix a specific 'bug' in software (usually security related). ✓ <u>Service pack</u> : Is a release of all 'bug' fixes AND new features since release of the original software; usually released by companies at fixed intervals, and larger than patches. ✓				
4.4	4.4.1	To prevent data loss <p style="text-align: center;">OR</p> To have a copy or duplicate of files in case something goes wrong ✓			1	4
	4.4.2	External hard drive ✓ / Cloud storage				
	4.4.3	Storing files that are static onto a secondary system or onto a DVD ✓ in case you need to restore data if the original data is lost, damaged or destroyed. ✓				
4.5	4.5.1	Online storage refers to disk space on a server on the Internet that is allocated to you. ✓			1	2
	4.5.2	<ul style="list-style-type: none"> • Accessible from anywhere on any device with Internet access. • Changes are all in one place so all devices always have the latest version of data. • Backup and security are managed by the storage provider. • Easy to share files with other people. • Data is still accessible even if your computer is stolen, your house burns down etc. (Any TWO: ✓✓)				

	4.5.3	<ul style="list-style-type: none"> • Only accessible when you have an Internet connection. • Some data may be unusable over slow connections. • You pay for the data storage and the bandwidth used to upload and download data. • If the company goes bankrupt you may lose all your data. • You have no control over backup and security. (Any TWO: ✓✓) 	2	
	4.5.4	An agreement that any repairs to the computer will be done on the premises where the laptop is located. ✓	1	
4.6		<ul style="list-style-type: none"> • Magnifying an area of the screen • Text to speech • Making the mouse cursor larger • Increased contrast display settings • Displaying visual notices when computer makes a sound • Sticky keys and slow keys • Speech recognition • Using touch screens and on-screen keyboards (Any TWO: ✓✓) 	2	2
				[25]

QUESTION 5: INTERNET AND NETWORK TECHNOLOGIES

5.1	<ul style="list-style-type: none"> • Security can be a problem if WLAN not configured correctly ('eavesdropping') • Unauthorized users could use your Internet connection, costing you money ('piggybacking') • Drop in performance (as number of computers connected increases) • Signal problems (due to electronic or electrical interference) • Extra hardware (such as wireless access points) required <p><i>(Do not accept disadvantages that can also be related to a <u>wired</u> LAN, e.g. if file server is faulty, nobody can access their files)</i></p> <p style="text-align: right;">(Any THREE disadvantages: ✓✓✓)</p>	3	3
5.2	5.2.1 To provides resources / services ✓ to other (client) computers	1	
	<i>(Answer must be for the general function of <u>any</u> server)</i>		
	5.2.2 <ul style="list-style-type: none"> • Provides (shared) Internet access • Provides central point for security / firewall • Provides central control point for malware / viruses • Can speed up Internet access (by storing / caching web pages) • Can control Internet access / which sites can be visited (accept specific examples), etc. Any TWO reasons for using a proxy server (besides the answer given to Q 5.2.1): ✓✓	2	
	5.2.3 <ul style="list-style-type: none"> • File server • E-mail server • Print server • Database server • Web server <p style="text-align: right;">(Any TWO: ✓✓)</p>	2	
	5.2.4 Client ✓	1	6
5.3	Used to connect computers so that communication can occur ✓	1	1
5.4	The NIC is generally integrated in (part of) the motherboard ✓	1	1
5.5	UTP ✓	1	1
5.6	<ul style="list-style-type: none"> • A keylogger records keystrokes as you type ✓ • They can intercept sensitive information like passwords and forward this to a third party (for criminal / fraudulent purposes) ✓ 	2	2
5.7	<ul style="list-style-type: none"> • Updates are automatically sent to people • No need to continually visit the website to check for new information <p style="text-align: right;">(Any ONE: ✓)</p>	1	1
			[15]

QUESTION 6: INFORMATION MANAGEMENT

6.1	6.1.1	<ul style="list-style-type: none"> Makes it easier for respondents to choose from the options. Easier to capture. Easier to process the information using a spreadsheet. The purpose of the questionnaire can be served according to the research needs. (Any TWO reasons: ✓✓) 	2	
	6.1.2	<ul style="list-style-type: none"> Proper introduction for the questionnaire so that the respondents know what is the questionnaire all about. Questions should be short and precise. Thank the respondents at the end of the questionnaire. Include options for collecting the basic details of the respondents like their name, age, etc. (Any TWO guidelines: ✓✓) 	2	4
6.2		<ul style="list-style-type: none"> Publications Interviews Electronic media (Any ONE: ✓) 	1	1
6.3		Using another person's words and presenting them as yours. ✓	1	1
6.4		<ul style="list-style-type: none"> Data is unprocessed facts. ✓ Information is processed data which conveys a meaning. ✓ 	2	2
6.5		<ul style="list-style-type: none"> Use a primary key Use indexing (No duplicates) property (Any ONE: ✓) 	1	1
6.6		Content cannot be verified easily or attributed to a specific authority. ✓	1	1
				[10]

QUESTION 7: SOCIAL IMPLICATIONS

7.1	<ul style="list-style-type: none"> • Joystick • Touchpad/Trackpad • Touch screen • Trackball • Head control • Eye control <p style="text-align: right;">(Any TWO: ✓✓)</p>	2	2
7.2	Making use of Kensington locks ✓	1	1
7.3	<ul style="list-style-type: none"> • Switch devices off when not in use. • Make use of energy star appliances. • Buy LED monitors which consumes less power. • Adjusting the brightness of the screen for less power consumption. • Putting your computer in SLEEP/HIBERNATION mode when not in use for some time. <p style="text-align: right;">(Any THREE: ✓✓✓)</p>	3	3
7.4	7.4.1 Social engineering is manipulating people to get access to their secrets, their data or their physical computers or premises. ✓ OR Social engineering is using tricks based on the social behavior, emotions and habits of people to get them to give away data or do things that they should not do.	1	3
	7.4.2 <ul style="list-style-type: none"> • Scan e-mail attachments before opening them. • Do not open e-mail messages if you do not know the sender. • Never click on links in e-mails if you do not trust the source. • Do not believe every e-mail message. THINK before you act. • Do not trust strangers around data. • Be suspicious and sceptical of offers that need something from you before you can access them. <p style="text-align: right;">(Any TWO ✓✓)</p>	2	
7.5	Software that tries to monitor and tract the way you use your computer and the information is then sent off to third parties without the user's consent. ✓	1	1
			[10]

QUESTION 8: SOLUTION DEVELOPMENT

8.1	<ul style="list-style-type: none"> uses less ink/toner – therefore cheaper promotes green computing prints faster 	(Any ONE advantage ✓)	1	1
8.2	<p>Any ONE Advantage: ✓</p> <ul style="list-style-type: none"> smaller file size can be read by almost any device or app, i.e. portability <p>ONE Disadvantage: ✓</p> <ul style="list-style-type: none"> all formatting is lost 		2	2
8.3	So that Word will only replace whole words (matching the letters in the 'Find' box), not parts of words or partial matches ✓ (Accept any suitable example to illustrate the principle)		1	1
8.4	Aug 18 ✓		1	1
8.5	Hanging indent ✓		1	1
8.6	POWER ✓		1	1
8.7	8.7.1	Nothing / 'blank' ✓	1	
	8.7.2	"distinction" (the value_if_false) not in double quote marks ✓	1	2
8.8	Filter ✓		1	1
8.9	<ul style="list-style-type: none"> Class criteria must be "11A" or "11B" (or over two rows) ✓ Cans criteria must be >=50 (or >49) ✓ Show box for Cans must have a tick mark / be selected ✓ 		3	3
8.10	<ul style="list-style-type: none"> Can be used to ensure that there are no duplicate records Primary key field cannot be left empty 	(Any ONE reason ✓)	1	1
8.11	<ul style="list-style-type: none"> A cell phone number contains 10 digits, but the number is incorrect A surname appears in a field for surnames, but it is the wrong surname 	(Accept any ONE suitable example ✓)	1	1
				[15]
TOTAL SECTION B:				75

SECTION C

QUESTION 9: INTEGRATED SCENARIO

9.1	<ul style="list-style-type: none"> • Word processor: Microsoft Word/Libre Office Writer • Document publisher: Microsoft Publisher • Web development tool: Dreamweaver/Frontpage/Notepad++ • Browser: Internet Explorer/Edge/Chrome/Firefox • Image manipulation software: Photoshop/Gimp, etc. <p><i>(Note to marker: Accept only one correct example of each type of software application)</i> (Any TWO examples ✓✓)</p>	2	2	
9.2	<ul style="list-style-type: none"> • Better security • Better data transfer rates • Not affected by weather or physical obstructions <p>(Any TWO advantages ✓✓)</p>	2	2	
9.3	<ul style="list-style-type: none"> • Wider audience • People can comment on articles • Automatic notifications to audience about new articles • Analytics on audience is possible <p>(Any TWO advantages ✓✓)</p>	2	2	
9.4	<ul style="list-style-type: none"> • Source code is available in FOSS • FOSS is free • Proprietary source code is not available • Proprietary software may not be free <p>(Any TWO reasons ✓✓)</p>	2	2	
9.5	9.5.1	<ul style="list-style-type: none"> • There is no Internet connection • Computer has a virus • Prevented by firewall settings • Not a licensed copy of Windows <p>(Any TWO reasons ✓✓)</p>	2	3
	9.5.2	<ul style="list-style-type: none"> • Windows will be vulnerable to security threats • Bugs in the operating system or other applications will not be fixed • Newer features will not be added <p>(Any ONE implication:✓)</p>	1	
9.6	<ul style="list-style-type: none"> • Files suddenly start disappearing • Programs stop working properly • Free space on the computer suddenly gets greatly reduced • Error messages that you have not seen before start appearing • The computer no longer boots up • Your anti-virus software reports the threat or presence of a virus <p>(Any TWO ways: ✓✓)</p>	2	2	

9.7	9.7.1	<ul style="list-style-type: none"> • User friendly layout • Allows for single record view • Images can be inserted for visual appeal • It would provide potentially more accurate data if the system is suitably designed • The system can be quickly adapted if there is additional data that needs to be captured, etc. (Any TWO reasons ✓✓) 	2	4
	9.7.2	<ul style="list-style-type: none"> • Query • Filter • Sort (Any TWO ✓✓) 	2	
9.8		<ul style="list-style-type: none"> • May prevent data theft • May prevent malware from external storage devices • May prevent unnecessary data from being loaded onto the computer (Any TWO reasons ✓✓) 	2	2
9.9	9.9.1	Policy that outlines the rights and responsibilities of its users, especially in networked environments. ✓	1	3
	9.9.2	<ul style="list-style-type: none"> • To clearly list what the users are permitted and not permitted to do in order to protect them when they are using computers and when they are online • Include basic netiquette rules and responsible computer usage, as well as any other restrictions the organization might feel is necessary to implement such as restrictions related to Internet usage • Serve as a contract between the organization and the user summarising what they can and can't do as well as possible consequences of not complying with the policy • Place the responsibility of using the network in a responsible and ethical way, on the user (Any TWO reasons ✓✓) 	2	
	9.9.3	<ul style="list-style-type: none"> • A code of conduct educating users and governing their behaviour using the computer network and the Internet with respect to safe use, privacy, etc. • Details on when and where portable storage devices such as flash disks and portable media players may be used • Details of restrictions about installing any hardware or software • Procedures to follow if users find they are victims of identity theft, malware such as viruses, cyber bullying or cyber stalking • Hints to avoid plagiarism and the breaking of copyright law • Clear consequences of violating conditions spelt out in the AUP (Any THREE: ✓✓✓) 	3	
				[25]

QUESTION 10

10.1	10.1.1	An informal website consisting of articles in the form of a journal/ personal online diary. ✓	1	
	10.1.2	<ul style="list-style-type: none"> • Blog is easier to setup/maintain than a website. • Easy to follow new news as the newest post is at the top. • Provides better features for communication via posts. • Number of templates are available to set up blogs. • Number of sites which host blogs for no cost. • Any relevant answer. (Any TWO reasons ✓✓) 	2	
	10.1.3	<p>A list of e-mail addresses of people with the same interests</p> <p style="text-align: center;">OR</p> <p>Allows e-mails to be sent to the mailing list and automatically be distributed to all of its members. ✓</p>	1	4
10.2		<ul style="list-style-type: none"> • Empty the recycle bin • Delete temporary files • Use compression utility/program • Delete cookies • Run disk clean up <p style="text-align: right;">(Any THREE ✓✓✓)</p>	3	3
10.3		<ul style="list-style-type: none"> • Will not work for participants without fingers. • Injury to the finger, such as severe burns or cuts, may prevent recognition. <p><i>(Note to marker: any relevant response must be accepted.)</i></p> <p style="text-align: right;">(Any TWO ✓✓)</p>	2	2
10.4	10.4.1	RFID uses small radio devices ✓ to store and transmit data. ✓	2	
	10.4.2	Easy to tell when they pass check points or finish the race ✓ without having to record numbers manually. ✓	2	4
10.5	10.5.1	<ul style="list-style-type: none"> • Date modified – during last month • File type – document • Phrase in document <p style="text-align: right;">(Any TWO ✓✓)</p>	2	
	10.5.2	<p>CC-sends a copy to other interested people and the name is visible to other recipients ✓</p> <p>Bcc list are not visible to the other recipients ✓</p>	2	4
10.6		A validation rule ensures that specific data is entered correctly in a specific field ✓ whereas validation text contains the error message displayed when the validation rule is violated. ✓	2	2
10.7		<pre><body> ✓ <centre>✓<u><i>Eastern Cape Athletic Meeting</i>✓</u></centre> </body> ✓</pre>	4	4
10.8		<p>Autocorrect ✓</p> <p>Turn off autocorrect OR change language to South African English ✓</p>	2	2
				[25]
		TOTAL SECTION C:		50
		GRAND TOTAL:		150