



Province of the
EASTERN CAPE
EDUCATION

**NATIONAL
SENIOR CERTIFICATE**

GRADE 11

NOVEMBER 2011

**COMPUTER APPLICATIONS TECHNOLOGY P2
MEMORANDUM**

MARKS: 150

This memorandum consists of 11 pages.

SECTION A**QUESTION 1**

1.1	B	line chart	(1)
1.2	C	The folder will take up less space.	(1)
1.3	D	primary key	(1)
1.4	D	Fax	(1)
1.5	A	RAM	(1)
1.6	D	Digital camera	(1)
1.7	B	Resolution	(1)
1.8	D	.BMP	(1)
1.9	C	Stylus	(1)
1.10	A	Crop	(1)
			[10]

QUESTION 2

2.1	D	3G	(1)
2.2	H	IF	(1)
2.3	L	FAQ	(1)
2.4	N	ISP	(1)
2.5	J	Secondary	(1)
2.6	F	Copyright	(1)
2.7	O	Wild card	(1)
2.8	E	BIOS	(1)
2.9	A	Drivers	(1)
2.10	C	UPS	(1)
			[10]

TOTAL SECTION A: 20

SECTION B**QUESTION 3**

- 3.1
- Desktop are cheaper to buy.
 - Desktops are cheaper to upgrade.
 - Less likely to be damaged by dropping as they are not portable.
 - Are much easier to upgrade. (Any 2) ✓✓ (2)
- 3.2
- 3.2.1 On board graphics are attached to the ✓ motherboard and share the same memory as the computer. ✓ (2)
- 3.2.2
- Shares your computer memory.
 - If the graphics adapter breaks, you cannot replace it. You must install a new separate adapter or motherboard. (Any ONE valid response) ✓ (1)
- 3.3 A computer with 4GB will perform faster ✓. (1)
- 3.4
- 3.4.1
- Free software.
 - Can be edited and redistributed.
 - No licensing cost. (Any 2) ✓✓ (2)
- 3.4.2
- Very little after sales support. ✓
 - Amount of textbooks and training available is much less. ✓ (2)
- 3.5 No ✓
Windows 7 is included in the above package ✓ (2)
- 3.6
- 3.6.1 A device used to shoot low quality photos and video ✓, for fast transmission over the Internet/network. ✓ (2)
- 3.6.2 You can communicate via live video, not just sound or text. ✓ (1)
- 3.7
- 3.7.1 Optical indicates the use of an LED to detect movement, and NOT whether the mouse is cordless or not. ✓ (1)
- 3.7.2
- Pointing stick ✓
 - Touchpad/track pad ✓ (2)
- 3.7.3 The reflection on the mirror surface will make the optical mouse almost unusable ✓. Use a mouse pad or any other non-reflective surface. ✓ (2)

- 3.8 3.8.1
- No need to purchase and develop conventional film.
 - Memory card can store more images than a film.
 - Can download to a computer to store or send electronically.
 - Can be edited / touched up on the computer as the photos are in digital format.
 - Reduces costs as you only print the photos you need, not a whole film.
 - Can view/accept/reject photos instantly on the camera.
- (Any 2)✓✓ (2)
- 3.8.2 The amount of pixels (5 Mega pixels in this case) that the images taken by the camera are made up of. ✓ (1)
- 3.9 3.9.1 No ✓, DVD-writers are backwards compatible, meaning they can read and write CDs but CD writers cannot read or write DVDs. ✓ (2)
- 3.9.2
- Relatively cheap
 - Big storage space
 - Standardised worldwide
 - Long lasting if not scratched
 - Once written they can't be edited
- (Any 2) ✓✓ (2)
- 3.10 3.10.1 The way the keys are arranged on the keyboard. ✓ (1)
- 3.10.2 Keys that are used most are under the strongest fingers, so increasing the typing speed. ✓ (1)
- 3.10.3 A keyboard designed in such a way as to not impact negatively on the health of the user. ✓ (1)
- 3.10.4 RSI or CTS✓ (1)
- 3.11 3.11.1 Parts of a file are split up into non-continuous areas of a disk. ✓ (1)
- 3.11.2 Data is permanently burned into DVDs and CDs. This means that data can't be opened, added to and saved in different clusters. It stays where it was burnt in originally. ✓ (1)

QUESTION 4

- 4.1 Internet: ✓
• Library material and Encarta may be out of date. ✓
• Wider variety of information is available on the Internet. ✓ (3)
- 4.2 4.2.1 Is a pre-recorded✓ video/audio file✓ that can be downloaded and listened to. You only need to be on-line to download it, but not to listen to it. It does not broadcast live. (2)
- 4.2.2
• People have a choice of what they want to listen to, when compared to a radio or television.
• The podcast can be listened to after being downloaded, without being connected to the Internet.
• You can listen to the podcast repeatedly, in case you missed something as it is not a live broadcast.
• Users can subscribe to podcasts which can be automatically downloaded for later use. (Any 2) ✓✓ (2)
- 4.2.3
• FaceBook
• MySpace
• Twitter
• etc. (Any 2) ✓✓ (2)
- 4.3 4.3.1 A search engine is a website ✓ used to find web pages that match the search criteria entered. ✓ (2)
- 4.3.2
• Use quotation marks
• Use + or – signs in front of keywords
• Search within a search
• Use alternative word/s (Any 2) ✓✓ (2)
- 4.4 4.4.1 A smartphone is a Personal Digital Assistant (PDA) ✓ with cellphone abilities ✓
or
A cellphone with PDA abilities (2)
- 4.4.2
• Ability to serve as Personal Information Manager (PIM)
• Ability to synchronise data with computer
• Ability to browse the Internet
• Ability to send and receive e-mail
• Ability to load extra programs such as utilities and games, etc
• Ability to act as an MP3 player
• Has a camera/video feature
• Ability to act as a modem for computer
• Wireless connectivity
• Can write your own programs to use on your phone
• etc. (Any 2) ✓✓
(Excluding the use of scaled down software as it was mentioned in the question.) (2)

- 4.4.3
- Less features (only the minimum)
 - Uses less RAM and CPU power
 - Takes up less storage space
- (Any 2) ✓✓ (2)
- 4.4.4 Software used to organise your contacts, telephone numbers, addresses, dates, etc. and synchronise data between devices. ✓✓ (2)
- 4.5 3G✓ as it doesn't make use of landlines, so the bad lines won't affect their Internet connection. ✓ (2)
- 4.6 4.6.1
- Convenience of banking anytime, anywhere
 - Transactions are normally faster
 - Transactions usually cost less
 - Do not have to wait in long queues.
- (Any 2) ✓✓ (2)
- 4.6.2
- People are frightened of technology and learning new skills.
 - Security issues, such as hackers and ignorance of how online security works.
 - Possibility of being scammed by criminals pretending to be your bank.
- (Any 1) ✓ (1)
- 4.7
- Website starts with https.
 - Small lock at the bottom right of the screen.
 - Logo of a company such as Verisign, which indicates that the website is safe.
 - Use a trusted 3rd party for payment such as PayPal.
- (Any 2) ✓✓ (2)
- 4.8 4.8.1 USB✓ (1)
- 4.8.2 Bluetooth is much faster.
Bluetooth can connect over a greater distance.
Bluetooth is not a line-of-sight device.
- (Any 2) ✓✓ (2)

QUESTION 5

- 5.1 5.1.1
- Sharing of expensive hardware
 - Sharing of data
 - Transferring of data and information between computers.
 - More control and security
 - Communication
 - Games – making use of the LAN
- (Any 3) ✓✓✓ (3)
- 5.1.2 Advantage:
- No wires/cables.
 - You can move your laptop anywhere within range and still be connected.
- (Any 1) ✓
- Disadvantage:
- Can lose signal and connection if not in a good coverage area.
 - Other people can have access your data/folders much easier if your security is not set up correctly, as they don't need a physical connection.
 - It is more expensive to install
 - In some cases more challenging to manage/install. (Any 1) ✓ (2)
- 5.1.3 LAN✓ (1)
- 5.1.4
- More RAM.
 - More hard drive space (usually more than one hard drive).
 - Faster CPU
 - Operating system specifically designed for server. (Any 2) ✓✓ (2)
- 5.1.5
- e-mail server
 - proxy server
 - applications server
 - backup server
 - print server
 - etc.
- (Any 2) ✓✓ (2)
- 5.2
- Network Interface Card (NIC)
 - Hub/switch
 - Communication medium such as a cable
- (Any 2) ✓✓ (2)

- 5.3 5.3.1 A password is a string of characters known only to the user ✓ that is used in conjunction with a username to identify and authenticate a user. ✓ (2)
- 5.3.2 Passwords are a means of protecting ✓ a computer from unauthorised use. To prevent outsiders from logging into your system and perform illegal actions. (1)
- 5.3.3
- Use an alphanumeric password (combination of letters and numbers)
 - Don't use your name, surname, birth date or any item which is easy to guess.
 - Change your password regularly
 - Use different passwords for each website/computer/username. (Any 2) ✓✓ (2)
- 5.4
- No private printing
 - May not browse the Internet for private use
 - No private e-mails
 - Do not install software that is not licensed to the school
 - Do not install software that is licensed to the school at home.
 - etc. (Any 2) ✓✓ (2)
- 5.5 5.5.1 A program that was created deliberately in order to copy itself without the user's intention or knowledge and cause things that is unwanted and unexpected. ✓✓✓ (3)
- 5.5.2 No ✓. It is the 'blue screen of death'.
or
The computer has crashed due to an error it can't recover from. ✓ (2)
- 5.5.3
- Install an anti-virus.
 - Update the anti-virus regularly
 - Do not open strange discs, e-mails, websites, etc.
 - Scan any flash drives, CDs, etc. before using them.
 - etc. (Any 2) ✓✓ (2)

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QUESTION 6

- 6.1 6.1.1 Windows 7 Business✓ and Ubuntu✓ (2)
- 6.1.2 Ubuntu or OpenOffice✓ (Any 1) (1)
- 6.2 The company who created the software owns the software. ✓ You (as the user) only pay for the right to use the software. ✓ (2)
- 6.3 6.3.1 Freeware is the full program✓ whereas shareware is only a part of the program, certain features are missing or the program only works for a certain amount of time. After which you must pay for the full version of the program. ✓ (2)
- 6.3.2 You have just deleted the shortcut to the program. Programs are usually spread over multiple folders. ✓
- Use the add/remove feature in the control panel. ✓
- or
- Insert the original disc and use the uninstall feature.
- or
- Click on the uninstall option on the start menu for the program. (2)
- 6.4 Software piracy✓ (1)
- 6.5
- Documents usually take up less storage space.
 - Created as Read-Only – does not allow editing.
 - User does not need the original program that the file was created in.
 - PDF readers are freely available to download. (Any 2) ✓✓ (2)
- 6.6 6.6.1 Backups should never be made and kept on the same computer as the original data. ✓ (1)
- 6.6.2 DVDs are better for backups as they can contain more data than CDs. ✓ (1)
- 6.7 6.7.1 Menu that appears when you right click on an item. The menu is applicable to that specific item. ✓ (1)
- 6.7.2 Pressing the F1 key, will bring up the help menu in most programs. ✓ (1)

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QUESTION 7

- 7.1 7.1.1 Possible problem:
- Cannot perform accurate searches on individual items, such as the suburb, or city, or postal code, etc.
 - Not possible to validate data input effectively
 - Cannot create look up fields, for postal codes (Any 1) ✓
- Possible solution:
- Enter the data into separate columns, e.g. street, town, code, etc. ✓ (2)
- 7.1.2
- Cause: Numerical types cause a leading zero to be automatically dropped because a zero in front of a number doesn't have a value. ✓
 - Solution: Change field type to text. ✓ (2)
- 7.1.3
- Use an AutoNumber field ✓
 - Set the field to a primary key or index it without duplicates allowed. ✓ (2)
- 7.1.4
- You may not want a user to have access to all fields
 - More user-friendly interface can be created, etc. (Any 1) ✓ (1)
- 7.2 7.2.1 Text ✓ (1)
- 7.2.2 Text ✓ (1)
- 7.3 Report ✓ (1)
- 7.4
- Easier to filter/query for specific data.
 - Creating user-friendly reports is easier
 - Tables can be linked with each other.
 - User-friendly forms can be created for data input.
 - More extensive data validation techniques. (Any 2) ✓✓ (2)
- 7.5 7.5.1 To create a predefined structure where only certain details can be added, instead of creating the whole document from scratch every time. ✓✓ (2)
- 7.5.2
- Can't delete the file by accident on some operating systems. ✓
 - The original file can't be edited and saved, destroying the original layout. ✓ (2)
- 7.5.3 Sending a copy of the information to the person. Just for his/her attention, no reply needed. ✓ (1)

- 7.6 7.6.1 =(B12+E12+H12)*B16
- Cell reference for all totals used. ✓
Brackets. ✓
Correct operators used. ✓ (3)
- 7.6.2 In order to stop a cell reference in a formula to be incremented when the formula is copied via autofill. ✓ (1)
- 7.6.3 (a) The column is not wide enough. ✓
(b) The data type of a cell used in the formula is not compatible with the function/formula. ✓
(c) The program doesn't recognise the function you have entered, which usually is because of a typing error. ✓ (3)

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TOTAL SECTION B: 130

GRAND TOTAL: 150