



Computer Applications Technology
May Written Assessment 2007
Grade 10
Time: 2 hours

- Answer the questions clearly and neatly. Use correct grammar and spelling.
- Base all answers on the described scenario.
- Draw a line after each section. Set the paper out correctly. Marks will be deducted if the paper is not set out correctly.
- Look at the amount of marks allocated for each question and give enough for those marks, plus more. Just answer clearly to the point.

Keywords

- Explain – this answer needs at least a sentence
- Describe – needs at least two lines
- Most answers – require at least two lines

The following LOs and ASs are covered in this assessment - 1.1, 1.2, 1.3, 1.4, 1.5 and 3.3.

Scenario

- Establishment of a boarding new school with unlimited funds, similar to the Oprah Winfrey Leadership Academy for Girls.
- The computer lab has 35 computers but this is not a CAT lab as they are still at Grade 8 level.
- Teachers live at home off the school campus and need to have their own computers funded by themselves.

Section 1 - Hardware for school computer lab – 28 marks

The lab needs to be set up. Money is not a problem. They want the best for the learners.

1. Monitor

- a. Describe the monitor you would suggest. Give the size and anything else which will help to describe it. 2
- b. Give the reasons why you selected the monitor selected above. 2
- c. Name the type of monitor you would NOT suggest. 1
- d. Indicate why you would not recommend the monitor 'NOT suggested'. 1

2. Mouse
 - a. Describe the mouse you would suggest. 1
 - b. Give reasons why you selected the mouse selected above. 2
 - c. Why not another type of mouse? 1
3. Printer
 - a. Give the name of the type of printer you suggest. 1
 - b. Give the reasons why you selected the type of printer selected above. 2
 - c. Name three types of printers and indicate where, if you could use it, each would be used in the given scenario. 3
4. Scanner
 - a. Explain what is a scanner and how does one use it. 2
 - b. Give two keywords about scanning and explain what each means. 2
5. Data projector
 - a. Should they buy a data projector for the computer lab and if they did what would they use it for? If not, why? 2
6. Keyboard
 - a. Obviously they need a QWERTY keyboard but what do those letters mean? 1
 - b. What kind of keyboard would you recommend and why? 1
7. What other output devices would you recommend? Give reasons for your choices. 2
8. What other input devices would you recommend? Give reasons for your choices. 2

Section 2 - Software for school computer lab – 12 marks

The lab needs to be set up. Money is no problem. They want the best for the learners.

1. Buying software
 - a. What type of license would be needed in the computer centre with its 35 computers? 1
 - b. Name three types of licences and indicate where each would be used in the scenario described above. 3
 - c. Where should they buy the software? Why should they buy it there? 1
 - d. Where should they not buy the software? Why should they not buy it there? 1
2. List three applications that learners need at school for their work and say what they can do with them in their school work? 3
3. Viruses
 - a. How can a virus enter the computer system at school? 2
 - b. What should be installed to prevent viruses entering the system? 1

Section 3 - Teachers' computers in their homes – 21 marks

Teachers must be prepared to use the computer to enhance their lessons. They must buy their own hardware and software for their systems.

1. What operating system should the teachers get for their home computers?
Why this one? 2
2. What type (not 'name' of software) of software would they need to create a ...
 - a. document to calculate marks? 1
 - b. pamphlet advertising a hockey tournament? 1
 - c. lesson notes document? 1
3. What software application package has all those applications above in one package? 1
4. Find the answers to the following questions all based on the Appendix sheet:
 - a. What three brand names of processors are advertised? 3
 - b. How much storage is advertised in the Gaming computers? 1
 - c. What is the speed of the processor in the Office/Home computer? 1
 - d. The teachers would need to carry their files from home to school. What inexpensive storage medium could they use? Describe it and give the cost(s). 2
 - e. Look at the advertisement for the Office/Home. It costs R1999 which seems very little. It is a little because some things are missing. List what is needed before a teacher can use this advertised computer, and say what each of the missing things is used for. 5
 - f. This advertisement was given out at a robot/traffic lights. Should a teacher buy from a shop like this or somewhere else? Where should he/she buy a computer for home use? Give reasons for your decision. 3

Section 4 - Use of computer technology – 17 marks

1. Name two ways in which the learners could use modern technology to quickly communicate with their parents back home. Describe what problems you associate with using those technologies for communicating with parents? 4
2. Create a set of guidelines to make sure the learners and teachers do not suffer from any health problems caused by using the computer. 5
 - a. Number the points.
 - b. Make each guideline a clear point.
 - c. Each point must be less than 10 words.
 - d. You need 5 points.
3. In what way has the computer made the life of a learner searching for information easier? Explain. 2
4. Should the school buy a computer game for the lab? Give full details and reasons for your answer. 2
5. How can the parents use ICT to pay school fees? Explain. 1

6. An ATM was installed at the school. Name two safety rules for when using an ATM. 2
7. Carrying disks and cell phones can be a problem. What is the problem? Explain. 1

Section 5 - Using the computer – 12 marks

Some new learners wrote to the computer teacher and asked these questions. Answer them for the teacher.

1. I have been working on an essay and saved it on a floppy disk, as well as on the hard drive. How do I work out which one is the latest version? 2
2. I made a mistake when I named my file. How can I change a file name? 2
3. I renamed my files. I forgot to show the extension of the files. When I renamed the files the colour and picture of the icon of the file changed and the file will not open anymore. What did I do wrong? 2
4. I have been working on an essay and saved it on a floppy disk, as well as on the hard drive. How do I work out which one is the latest version? 2
5. Does it make a difference if I use a file name with uppercase (capital letters) or lowercase? 2
6. I have a folder with many files of different types. I want to delete just the MS-Word document files. Must I delete each one individually or is there a smarter way of doing this? 2

Section 6 – MCQ – NOT based on the scenario – 10 marks

For each question select the best answer or statement.

1. Where would you go in your computer to see what size drive your computer has? 1
 - a. My Computer, Control Panel, Folder Options
 - b. My Computer, Local Disk, Properties
 - c. My Network Places, Local Disk, Properties
 - d. Start, Settings, Control Panel, System, System Properties
2. Which one of the following statements concerning memory and storage is false? 1
 - a. Because RAM is electronic, it is much faster than storage which is mechanical.
 - b. Data is stored optically or magnetically on storage devices.
 - c. Memory needs constant power if it is to retain its contents.
 - d. You need much more RAM than storage on a PC.
3. This type of memory is also referred to as primary memory: 1
 - a. Cache
 - b. RAM
 - c. ROM
 - d. Storage

4. The two main groups of software are: 1
- a. Application Software and Microsoft Office
 - b. Application Software and System Software
 - c. Operating Software and System Software
 - d. System software and Windows
5. Which one of the following terms does not logically belong with the others? 1
- a. Keyboard
 - b. Monitor
 - c. Memory
 - d. Search Engine
6. Which is NOT in RAM? 1
- a. A new file that has just been created
 - b. A new file that has just been modified
 - c. An old file that has just been opened from a CD
 - d. An old file that is stored on the hard-drive
7. Which of the following statements best describes computer memory? 1
- a. A place to store information while the computer is off
 - b. A temporary storage area for data while the computer is functioning
 - c. The ability of the computer to remember information
 - d. The part of the computer that performs functions on data
8. A temporary storage location for files deleted from the hard drive is: 1
- a. Delete
 - b. File. Save as
 - c. RAM
 - d. Recycle Bin
9. A database would be the most appropriate program to ... 1
- a. create a multimedia presentation on AIDS for the grade 8 classes.
 - b. design the school's brochure detailing the school's facilities.
 - c. prepare the budget of the school.
 - d. store the details of the learners and their parents.
10. Which one of the following statements about the Internet is true? 1
- a. Access to the Internet is obtained via companies called ASPs.
 - b. The Internet is a global network of interlinked computer networks.
 - c. The Internet is controlled by Microsoft.
 - d. The terms Internet and World Wide Web refer to the same thing.

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