**TOPIC 1: Computer Concepts Questionnaire**

The questionnaire consists of Three Sections.

**Take note**: Type the answers on this document – use a different font style/colour to stand out.

**Remember** to save the document (**Computer QuizAnswer**) before you start.

OR use your own shared location and rename the document with a file name of your choice.

**SECTION 1:**

1. How is the telephone line used in computing?

2. What is the function of a GUI (Graphical User Interface)? List two advantages of using a GUI.

3. Give four examples of embedded computers.

4. What is the latest version of Microsoft Windows called?

7. List four types of pointing devices. What are their main advantages over a keyboard?

8. Describe health problems which can be caused by incorrect use of the computer.

9. Give four situations where you might encounter computer-based systems in your everyday life.

10. What is the new Microsoft browser called?

11. What is the abbreviation MHz short for?

12. What is the abbreviation BYOD short for?

13. Will more RAM increase or decrease the computers performance?

14. What is a Wi-Fi hotspot and give an example of one?

15. What does WiMAX stand for?

16. What is Bluetooth and how does it work?

17. List the two most common types of mobile Internet connections and describe how they differ from each other.

18. What is a hot swappable device?

19. Which storage category includes both RAM and ROM?

20. Explain what is meant by off-line storage.

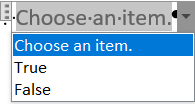
21. What is the difference between text files and document files?

22. What is the difference between a CSV file and an XLS file?

23. What does ICT Infrastructure mean?

**SECTION 2:**

Various options are given as possible answers to the following questions. Answer the questions by selecting the **letter** (A, B, C, ...) from the drop-down list or select the word *True* or *False*.

*Example:*

This document was created in MS Word 2016. True or False? Choose an item.

1. Some computers operating by touching the screen to select programmes and files.

**Answer:** Choose an item.

2. The CPU is a computer peripheral device. True or False

**Answer** Choose an item.

3. Thanks to computers, businesses have become more reliable. This statement is …

**Answer:** Choose an item.

.

4. Each computer connected to the Internet must have a modem connection.

**Answer:** Choose an item.

5. The ARPANETwas the world’s first operational packet switching network*.* True or False

**Answer**: Choose an item.

6. Which of the following is not an operating system?

A. DOS

B. Oracle

C. Linux

D. Windows

E. None of these

**Answe**r: Choose an item.

7. Which one of the following examples does not qualifies as “Computers on the move”?

1. Palmtop
2. Microcomputers (PC)
3. Notebook
4. Smart cards

**Answer:** Choose an item.

8. Specialized programs that allow particular input or output devices to communicate with the rest of the computer system are called \_\_\_\_

1. operating systems
2. utilities
3. device drivers
4. language translators
5. Connectors

**Answer:** Choose an item.

9. What does BIOS stand for?

1. Biological Internet operating system
2. Binary inner/outer stages
3. Basic input/output system
4. None of the above

**Answer:** Choose an item.

10. USB is which type of storage device?

A. Tertiary

B. Secondary

C. Auxiliary

D. Primary

**Answer:** Choose an item.

11**.** Computers have offered people many significant advantages. Which of the following is not an advantage?

**A.** saving time

**B.** automating non-repetitive tasks

**C.** connecting people

**D.** fewer human interactions.

**Answer:** Choose an item.

12. One of the advantages of computers is that they increase the accuracy for …

**A.** people

**B.** machines

**C.** both people and machines.

**Answer:** Choose an item.

13. Thanks to the Internet, it is possible for anyone to teach themselves new skills. This includes …

A. creating a web site.

B. becoming a plumber.

C. studying medicine.

D. all the above.

**Answer:** Choose an item.

14. What is half a byte in a computer known as? a nibble. What is a single switch in a computer known as?

A. Bit

B. Byte

C. Nibble

D. Megabyte

E. None of the above

**Answer**: Choose an item.

15. Which one of the following is the correct data type that can store a single character? This includes letters, numbers, and symbols.

A. Real

B. Character

C. String

D. Integer

**Answer:** Choose an item.

16. In the file name: C:\Documents\School\ScienceAssignment.docx. What does .docx tell you?

A. File name

B. Folder

C. Extension

D. Drive letter

**Answer:** Choose an item.

17. Which of the following is NOT a file extension used for graphics files?

A. .png

B. .gif

C. .toff

D. .jpeg

**Answer:** Choose an item.

18. All networks can be the target of an attack, especially those that connect to the Internet. This is why it is extremely important to understand and implement basic network security. Select an option you will look at to use or do to keep the network secure:

1. firewall
2. antivirus software
3. use passwords and usernames where necessary
4. understanding BYOD environments and applying all relevant safety requirements
5. All the above

**Answer:** Choose an item.

19. Ergonomics does not involve ………

**A.** Making sure people are in a comfortable position

**B.** Arranging furniture and equipment

**C.** Reducing strain on the human body

**D.** Adjusting the lighting of an area

**Answer:** Choose an item.

20. Which of the following will not reduce your computer’s power usage?

**A.** Unplugging your computer when you are not using it

**B.** Reducing the brightness of your display

**C.** Reducing your CPU’s speed

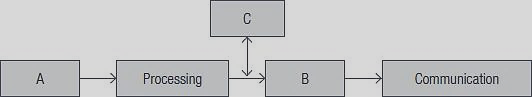
D. Turn off the lights

**Answer:** Choose an item.

**SECTION C**

Answer the following questions by entering (typing) the answer next to the number as indicated.

1. Answer the questions based on the diagram below.



Name the missing stages, as indicated by the letters below:

A: **Answer**: Click or tap here to enter text.

B: **Answer:** Click or tap here to enter text.

C: **Answer:** Click or tap here to enter text.

1. Your teacher is busy printing out the term class reports. Which stage is this in the information-processing cycle?

**Answer:** Click or tap here to enter text.

1. Choose a concept from COLUMN B that matches a description in COLUMN A. Type only the letter next to the question on the line provided in Column A. There can be more than one answer to a question.

|  |  |
| --- | --- |
| **Column A** | **Column B** |
| 1. The structures use to store data \_\_\_\_\_\_\_ | 1. Directories 2. Folders   C. Ctrl + X  D. Ctrl + C  E. Recycle bin  F. Extension  G. File path  H. Files and databases |
| 1. To copy a file, use the \_\_\_\_\_\_ shortcut key on the keyboard |
| 1. Files are stored on a computer inside \_\_\_\_\_\_ or \_\_\_\_\_\_ |
| 1. In Microsoft Windows, all deleted files are first moved to the \_\_\_\_\_ |
| 1. The file path always ends with the file \_\_\_\_\_\_ |
| 1. To move a file, you should use the \_\_\_\_\_\_ shortcut key on the keyboard |

1. The storage device is listed in Column A. Enter your answer in Column B. Choose between one: of the following data storage methods: Primary, Secondary, Off-line, Tertiary

|  |  |
| --- | --- |
| **Column A Storage device** | **Column B/ Storage method** |
| HDD | Choose an item. |
| RAM | Choose an item. |
| ROM | Choose an item. |
| USB | Choose an item. |
| SSD | Choose an item. |
| DVD-RAM | Choose an item. |
| CLOUD | Choose an item. |

1. A computer uses RAM and ROM to store data. The table contains three statements about them - tick to show whether each statement describes RAM or ROM.

|  |  |  |
| --- | --- | --- |
| **Statement** | **RAM** | **ROM** |
| Stores the programs and data that are currently in use |  |  |
| Used to boot up the computer when power is turned on |  |  |
| Contents are retained when power is turned on |  |  |

1. Storage devices and storage media can be categorised as primary, secondary or off-line. In Column A there are 6 descriptions in the table below.

Click on *choose an item* and select the storage device or media next to the description. In the last column select the correct storage category next to each storage device chosen in column B.

ROM, Blu-ray disc, RAM, DVD/DVD-R(+R) DVD-RW(+RW) DVD-ROM (not CD or DVD-RAM)

or SSD (solid-state drive)

|  |  |  |
| --- | --- | --- |
| **COLUMN A: Description** | **COLUMN B:**  **Choose a storage device or media** | **COLUMN C: Primary/Secondary or off-line** |
| Non-volatile memory chip, contents of the chip cannot be altered; often used to store the start-up routines in a computer (e.g. the BIOS) | Choose an item. | Choose an item. |
| Optical storage media that allows very high storage capacity by using blue/violet lase technology |  | Choose an item. |
| Volatile memory that stores data, programs and the parts of the opening system that are currently in use |  | Choose an item. |
| Optical storage media that uses a single spiral track and uses dual layer technology, allowing high data storage capacity |  | Choose an item. |
| Non-volatile memory device that uses NAND flash memories (which consist of millions of transistors wired in series on single circuit boards) |  | Choose an item. |
| Optical storage media that uses concentric tracks allowing writing and reading to take place at the same time |  | Choose an item. |

1. Clip or tap to write the correct missing numbers:

1 Mb = …Click or tap here to enter text.. Kb (1)

1 Tb = …Click or tap here to enter text. Mb (1)

8. In some laptops, internal hard disk drives are being replaced by SSDs.

**8.1** What do the letters SSD stand for?

**Answer:** Click or tap here to enter text.

**8.2** Mention one advantage of using an SSD.

**Answer:** Click or tap here to enter text.

**8.3** Mention one disadvantage of using an SSD.

**Answer:** Click or tap here to enter text.

9. Answer the following questions based on the file path below:

C:\My Documents\School\Technology.docx

9.1 What is shown in the file path above?

**Answer:** Click or tap here to enter text.

9.2 To what does “C:\” refer?

**Answer:** Click or tap here to enter text.

9.3 A file name consists of two elements. What are they in this diagram?

**Answer:** Click or tap here to enter text.

10**.** Complete the table below by indicating in Column B whether the action in Column A is downloading or uploading. Only write Uploading/Downloading next to the number in Column B.

|  |  |
| --- | --- |
| **Column A** | **Column B Uploading/Downloading** |
| Putting photos on a Facebook wall | 10.1 Choose an item. |
| Using a torrent to legally download movies | 10.2 Choose an item. |
| Getting music from beemusicplayer | 10.3 Choose an item. |
| Getting a PDF document from the Internet | 10.4 Choose an item. |

11. Choose which of the following emails in the tables are valid or invalid? In the last column explain why you choose invalid each time.

|  |  |  |
| --- | --- | --- |
| **e-mail address** | **Valid or Invalid?** | **What makes it invalid?** |
| @domainsample.com | Choose an item. |  |
| anonymus@domainsample.com | Choose an item. |  |
| -autumn-dancer@domain.com | Choose an item. |  |
| jenx kitty@domain.com | Choose an item. |  |
| [jenx\_kitty@domain.com](mailto:jenx_kitty@domain.com) | Choose an item. |  |
| didwa.doe@domainsample | Choose an item. |  |
| didwa.doe@domain.net | Choose an item. |  |
| didwa.doe43@domainsample.co.za. | Choose an item. |  |

12. What is the difference between pressing *PrtSc* and pressing *Alt* together with *PrtSc* (*Alt* +*PrtSc*)?

**Answer:** Click or tap here to enter text.

13. Match the ports in Column A to the connectors in Column B.

Choose the matching letter next to the number.



13.1 Choose an item.

13.2 Choose an item.

13.3 Choose an item.

13.4 Choose an item.

Answer the following questions in your own words.

14. Briefly discuss the limitations of fixed Internet access, paying particular attention to the South African context.

Click or tap here to enter text.

15. What files can be compressed?

Click or tap here to enter text.

16. What are the effects of compressing a file?

Click or tap here to enter text.

17 Give an example of an animation file extension. How does an animation differ from an image?

Click or tap here to enter text.

18. What is a source code file? Give two examples of a source code file type.

Click or tap here to enter text.

19. Which storage device would you use for the following tasks and why?

19.1 Copying your assignment to a different computer to be printed.

Click or tap here to enter text.

19.2 Backing up all your images, videos and music files.

Click or tap here to enter text.

19.3 Storing your programs and games.

Click or tap here to enter text.