**NAME:** …………………………………………………….. **STREAM:** ………

**ST. NOAH SECONDARY SCHOOL- MUTARA**

**SENIOR THREE END OF TERM 2 2023**

**INFORMATION AND COMMUNICATION TECHNOLOGY ASSESSMENT**

**TIME: 2 HOURS**

**INSTRUCTIONS**

*Attempt all the questions*

**1**.**(a)** Kidole uses a computer to capture information about his business. Of late, his computer started to slow down and hang during use. Explain an appropriate solution that Kidole can use to solve the problem with his computer? *(03 scores)*

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**(b)** In a school computer lab, learners directly access the files of their fellow students. What appropriate measure can be used to improve security of the computer files? *(02 scores)*

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**2**. **(i)** Describe how each of the following devices can be used for delivering a lesson in Biology. *(06 scores)*



**A**……………………………………………………………………………………

**B**……………………………………………………………………………………

**C**……………………………………………………………………………………

**(ii)** Explain any two precautions that should be observed while using any of the devices in **(i)** above. *(02 scores)*

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**3**. **(a)** Fill in the appropriate devices below *(03 scores)*

|  |  |
| --- | --- |
| **Statement** | **Device** |
| A device used to convert a hard copy into soft copy file |  |
| A device used to output the contents on a wider display |  |
| A device for producing coloured images for a billboard |  |

**(b)** A LaserJet printer uses tonner to form images on the sheet of paper/print media. The printer creates a beam of light in form of the image to be printed. The beam of light heats the tonner and the particles melt forming an image on the print media/paper. Explain how this is possible with LaserJet printers. *(02 scores)*

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**4**. **(a)** A computer uses system software and application software. Explain the difference between these **two** categories of software. *(04 scores)*

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**(b)** Jane tried to install a new program on her computer. She got an error message “you do not have sufficient storage space”. She has had this computer for more than 5 years. Share with Jane three different pieces of advice on how to address the challenge.  *(03 scores)*

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**5**. A User logs on to his laptop computer using a thumb print and password. He does not connect it to open wireless networks. He always tells his colleagues that “***a laptop is a personal device not for sharing***”.

**(a)** Share your personal views on why the User;

**(i)** Logs in with both a thumb print and a password. *(01 score)*

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**(ii)** Avoids open wireless networks. *(01 score)*

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**6**. The school computers in the computer laboratory are having a problem of limited storage space.

**(a)** Suggest **three** ways of solving this problem. *(03 scores)*

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**(b)** The teacher of ICT in a school in Uganda stores his files on Drop Box and Google Drive. Suggest any **two** challenges he is likely to face. *(02 scores)*

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**7**. Two competing companies A and B produce similar products. Company A reaches out to customers using printed flyers and billboards around the community while company B has active Facebook and Titter platforms.

**(a)** What are the likely advantages of Company A over Company B? *(03 scores)*

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**(b)** What are the likely advantages of Company B over Company A? *(03 scores)*

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**(c)** Which of the **two** approaches would be appropriate for SELLING company products in your community and why? *(02 scores)*

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**8**. Students of Senior One shared complaints of having backaches, headaches and painful shoulders as a result of participating in a computer training workshop that lasted one week.

**(a)** Explain the possible causes of

**(i)** **Backaches**  *(01 score)*

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**(ii)** **Headaches** *(01 score)*

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**(iii)** **Painful Shoulders** *(01 score)*

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**(b)** Share your advice on how any **two** of the above challenges can be avoided by the students. *(02 scores)*

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**9**.**(a)** Fill in the table below with the appropriate tool for each of the functions. *(02 scores)*

|  |  |
| --- | --- |
| **Function** | **Tool** |
| Reading thumb prints at the workplace |  |
| Measuring the temperature of a workers |  |
| Reading prices of commodities at a point of sales |  |

**(b)** Imagine you have been assigned a task to prepare a presentation about germination of a bean seed. Identify **three** ICT tools you would need to collect data and what you would use each tool for. *(06 scores)*

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**10**. Imagine you were dropped in the middle of a forest. You are not able to identify where you are. In your pocket, you have a functioning smartphone that has no Sim Card in it. You realize that it can access an active hot spot for an abandoned camping site nearby. Write down a detailed step by step account of the steps you would take to get yourself out of the forest back to safety? *(15 scores)*

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**11**. Bruce works as a secretary at a law firm. His work requires him together with 20 other colleagues to work on a computer for more than 8 hours a day, six days a week. Each of these employees can work for a maximum of 3 days a week and then take a break. The office policy allows anyone in office to work on a case at hand irrespective of who created its documents. At times they are forced to collaborate in order to get the same understanding about the case. As a student of ICT,

**(a)** Guide Bruce and his colleagues on how they can store files in a way that allows them to work effectively. *(07 scores)*

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**(b)** Advise Bruce on how he can reduce chances of getting health related challenges that may come as a result of his work environment. *(02 scores)*

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**12**. Imagine you are at a camp site in a remote village and realize the many features near the camp site are what were required for your Geography coursework. You need to take a number of photos of these features because they will be helpful in your coursework. You only have access to two devices with you. A new digital camera that does not have a memory card in it but has internal storage that can accommodate about 5 images and a laptop whose webcam is faulty. Both laptop and camera support Bluetooth technology. You need to take not less than 30 photos for the coursework to be fully covered. Explain in detail how you can get all the necessary photos without leaving the camp site? *(15 scores)*

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