Comprehensive assessment S2

1. What is a password? **( 2 Marks)**

Answer:

a password is a secret code used to prevent un authorized access to a computer hardware, software, as well as the data and information stored in the computer. A password provides the user with authority to access information in a computer.

1. List any four characteristics of a good password. **( 8 Marks)**

Answer:

**A good password should be strong and easy to remember; but it should be difficult for a hacker to guess. A hacker tries to access an account in a computer without permission**.

 The following are characteristics of a strong password:

1. It should have at least eight (8) characters.
2. It should contain a combination of uppercase and lowercase letters.
3. It should also have numbers and symbols if they are allowed. An example of a strong password is: Nkosi%88#
4. It should be changed frequently, for example, after every one month
5. Explain the two categories of user while accessing a computer **( 5 Marks)**

Answer:

**.Administrato**r: This is a user that has superior privileges. Administrators can make changes to the accounts of other users such as changing the security settings, installing software and hardware, as well as accessing and modifying all files on the computer.

 • **Standard user (Guest):** This is a user account that allows people to have temporary or limited access to a computer. People with this type of account can use most of the software installed. They can also change the system settings that do not affect other users or the security of the computer. Standard users cannot, however, install software or hardware, or create passwords.

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| 1. List 3 harmful programs **( 3 Marks)**
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 Answer

Worms, spyware, trojan, and rootkit ……

1. Money transfer can be done using (choose one: **( 2 Marks)**
2. Joy stick
3. Scanner
4. Digital camera
5. Phone
6. Dot matrix printer

Answer

Phone

1. Which of the following device is used to make data backup(choose one)

 **( 2 Marks)**

1. CPU
2. RAM
3. Memory card
4. Primary storage

Answer

Memory card

1. Give the full meaning of the following abbreviation : **( 8 Marks)**
2. EDI:
3. ATM:
4. EBM:
5. E-Commerce :
6. SMS:
7. PIN :
8. LED :
9. AP :

Answer:

1. EDI: electronic data interchange
2. ATM: automated teller machine
3. EBM: electronic billing machine
4. E-Commerce : electronic commerce (buy and sell online)
5. SMS: short message service
6. PIN : Personal Identification Number
7. LED Light Emitting Diodes
8. AP Access Point
9. State 4 ICT Tools that can be used in financial transactions **( 4 Marks)**

Answer

 ATM, EBM , Computer , mobile or phone ,

1. work out: **( 4 Marks)**

a. 3Mb = ................Bytes

b. 200000bytes = ...........Kb

answers:

1. 3Mb =3\*1024\*1024= 3,145,728Bytes
2. 200,000bytes = 200,000/1024=195.31Kb
3. The Table below contains details of students. Use it to answer the questions that follow: **( 6 Marks)**

|  |  |  |  |
| --- | --- | --- | --- |
| Name  | ICT  | General  | Total marks |
| Hakizimana | 78 | 81 | 159 |
| Dukuzumuremyi | 90 | 65 | 155 |
| Kamali  | 68 | 54 | 122 |

1. write the formula to Calculate the total marks for Kamali
2. write the formula to The mean for ICT
3. Give the name of the cell containing ICT marks for Dukuzumuremyi given that A1 is the cell containing Name.

Answer:

1. =Sum(Left) or = sum (b4:C4)
2. =Average(Above) or =average (b2:b4)
3. B3 and C3
4. State Three roles of a spreadsheet program. **(6 Marks)**

Answer:

 • To enable the user to enter and edit data.

 • To perform calculations.

 • To present data in graphic charts.

1. What are The steps followed when creating a map **( 5 Marks)**

Answers:

 (i) Load Geospatial data into ArcMap

 (ii) Identify the features and attributes to present.

1. Define how to show the data.
2. Add map components.
3. Export the map
4. Give three types of devices that can be connected in a network

 Answer **(5 Marks)**

• Printer • Laptop • Desktop

• PDA • Smartphone

1. Explain the use of each of the following spreadsheet functions:

 **(10 Marks)**

(a) Average

(b) Odd

(c) Round

(d) Max

 Answer

 (a) Average: it is used to calculate the mean of values specified in a selected range of cells

 (b) Odd: it returns a value rounded up to the nearest odd integer. The general syntax is =ODD (number) where number is the value to be rounded.

(c) Round: it rounds off a number to a specified number of digits.

d) Max; the term Max refers to the function used for obtaining the maximum or largest value in a selected range of cells.

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| 1. State five importance of mobile banking in society.

 **(10 Marks)**Answer  |

*The importance of mobile banking:*

(i) It makes life easier since customers can access their accounts at the comfort

of their homes.

(ii) The customer is notified of any transaction done in his or her account.

(iii) Mobile banking applications are easy to use, thus user-friendly.

(iv) Use of mobile banking reduces cases of fraud.

(v) Transfer of funds from one account to another is easier.

(vi) Paying of bills is done faster, at the convenience of the customer.

1. The following are commands under the **Operators** block palette explain the function of each **( 10 Marks)**

 **1 ( ) < ( )**: Checks if a value is less than the other.

2 **( ) = ( )**: Checks if two values are equal.

3 **( ) > ( )**: Checks if a value is greater than the other.

4 **Join ( ) ( )**: Displays a combination of two values.

1. **( ) Mod ( )**: Displays the remainder of the division
2. List and name any 5 symbols that are used in formulas in spreadsheet:

  **(10 Marks)**

Answers:

Percentage **%** Comma , open Parenthesis or brackets **(**  Equal Sign **=** Closing parenthesis **)** Quotation marks **“ ”** Colon **:** Exponential **^** Dollar sign **$** At sign **@**