Comprehensive Assessment for S1

1. How do you call the first screen that displays at boot up of computer?

**(2 Marks)**

Answer:

the first screen that displays at boot up of computer is called **“ Desktop**

1. ICT is the abbreviation of: **(2 Marks)**
2. International and Communication Technology
3. Information and Computer Technology
4. Information and Communication Technology
5. Information and common Technology

Answer:

ICT is the abbreviation of:

1. **Information and Communication Technology**
2. The following tools are considered as ICT tools (choose 2): **(2 Marks)**
3. Satellite
4. Mouse
5. Radio
6. Screen
7. Keyboard

Answer:

The following tools are considered as ICT tools (choose 2):

1. **Satellite**
2. **Radio**
3. Write in full meaning of the following : **(6 Marks)**
4. IT:
5. CPU:
6. RAM:
7. ROM:
8. ATM:
9. PC:

Answer

1. IT: Information and Technology
2. CPU: Central Processing Unit
3. RAM: Random Access Memory
4. ROM: Read only Memory
5. ATM: Automatic Teller Machine / Asynchronous Transfer Mode
6. PC: Personal Computer

1. List and explain two types of windows and give any example **(6 Marks)**

Answer:

There are two types of windows, namely application and document windows.

1. Application window: It is the larger window that is displayed when an application is opened, for example, MS Word and MS Excel among others. It helps the user to communicate with the application program.
2. Document window: It is the smaller window inside the application window. It is used for typing, editing, drawing and formatting the text and graphics.
3. Explain the two types of page orientations **(4 Marks)**

Answer:

Page Orientation This refers to the positioning of the page in relation to the text or graphics:

• **Portrait**: This is where text and graphics are printed with the longest side placed vertically and the shortest placed horizontally.

• **Landscape**: This is where text and graphics are printed with the longest side placed horizontally and the shortest placed vertically

1. Give at list 6 search engines **(6 Marks)**

Answer

**The following are some examples of search engines:**

(a) Google (b) Google scholar (c) Yahoo!

(d) Bing (e) Ask.com (f) Wikipedia

(g) WiseGeek.com

1. Discuss about GIS. **(5 Marks)**

Answer:

GIS stands for **Geographic information system**, it is a system designed to capture, store, manipulate, analyze, manage, and present all types of geographically referenced data; that is, data identified according to their location. GIS applications are tools that allow users to create interactive queries (user created searches), analyze spatial information, edit data in maps, and present the results of all these operations. It is a computer-based system that stores geographically referenced data.

1. Define a computer network **(4 Marks)**

Answer:

A computer network is a set of interconnected computing nodes which communicate with one another through a transmission medium using a set of rules.

1. List any 5 network devices. **(5 Marks)**

Answer:

Router, hub, switch, repeater, bridge, cables,.....

1. Differentiate between digital and analogue data by the help of examples

**(8 Marks)**

Answer :

**Analog data** is in continuous form. It is processed using computers which process the continuously changing variable quantities. Analog data can be represented as a wave form. Examples of analog data include temperature, pressure and humidity.

**Digital data**, unlike analog data, does not vary continuously with time. Digital data are discrete; that is, their values have only two possible states: that is, 0 or 1; on or off; and true or false. Example of digital data is data held in a computer.

1. Explain the four major functions of a computer **(10 Marks)**

Answer:

Computers perform four major operations or functions namely: input, processing, storage, and output.

• Input: This is data entered into a computer for processing. A computer has input devices that are used for data entry. It accepts the data entered into it.

• Processing: This is the conversion of data into information. Once data is accepted, the computer takes it to the processing unit where it is converted into information based on the instructions given by the user.

• Output: It is the information produced after processing of data is complete. This information can be used as data in another stage or it could be the last result required.

**.**Storage: A computer can store a large amount of data within it. It has primary and secondary storage devices that are used for this purpose.

1. Discuss about General precautions to maintain a computer while using it

**(10 Marks)**

Answer:

**.**Computers should be connected to the UPS or plugged into a quality surge protector. • Ensure the anti-virus software is updated regularly. Always scan the computer and the external storage devices before use.

• Always shut down the computer using the correct procedure.

• Avoid placing computers and related components at the edge of the table where they are likely to fall.

• Laptops should be carried in a bag with padding for protection.

• Engage the services of a reputable insurance company to cover the risk in case of loss or damage. (ii) Power connectivity

• Ensure there are enough sockets in the computer lab to prevent overloading.

• Connect the power cable from the main power source to the UPS and to the power supply unit on the computer.

• Correctly turn off the computer when not in use. Always remember to switch off the main power source.

• Install a standby generator that can automatically be used in case of power failure. 100 100 (iii) Precautions for connecting the mouse, keyboard and other external peripherals

• Connect the peripheral devices to the correct ports, for example, the USB or PS/2 ports for the keyboard and the mouse.

• Do not force peripheral devices into the ports to avoid bending the pins as this

1. a) What is e-mail? **(2 Marks)**

Answer

E-Mail: This refers to a system of exchanging messages electronically over a computer network.

b) MUTONI had an existing e-mail account she need to sign in using computer connected to a network how you can help her? **(8 Marks)**

***Sign In***

To sign in to an existing account do the following:

(i) Open the web browser software installed in the computer.

(ii) Open the e-mail application program to display the sign in window.

(iii) Type the e-mail address under User Name box and password under the Password box.

(iv) Click Sign in button to open the e-mail.

1. Give and explain five different areas where GIS can be applied

**(10 Marks)**

Answer

**. Natural Resources**: This includes forestry management, habitat identification and evaluation.

* 1. **Community services**: Fire, ambulance, police, crime investigations, utility management.
  2. **Health**: Mapping the spread of infectious agents.
  3. **Water resources**: Planning water needs, mapping aquifers among others.
  4. **Minerals**: Mapping oil, coal, natural gas deposits, and copper among others.

16) Complete the following **(10 Marks)**

Answer

1. **Email** is a system of exchanging messages electronically over a computer network.

2. **Composing** is the process of creating a new mail.

3. A host computer is also known as the **server**.

4. The interconnectivity of networks is known as the **Internet**.

5. A **website** is a collection of web pages stored as a single file in a web server.

6. The URL is an abbreviation for **Uniform Resource Locator**.

7. WWW stand for **World Wide Web**

8. The **Fixed Zoom In** tool enlarges the image from the centre of the page.

9**. ArcMap** is the main mapping application that allows the creation of maps and query attributes and analyzes spatial relationships and layout of the final projects.

10**. ArcCatalog** is used for managing spatial data contained in the computer and other locations, managing database designs, recording and viewing metadata.