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**WEEK 10**

**School: Ba Sangam College**

**Year / Level: 12**

**Subject: Computer Studies**

**Name of Student: \_\_\_\_\_**

<b>Strand</b>	1 – Computers and Applications
<b>Sub strand</b>	1.5 Computers and Networks
<b>Content Learning Outcome</b>	Describe different types of communications and networks, network setup and explore the security measures.

**Some careers in this field**

**Network administrators**

- ❖ Oversee the computers in the company’s system.
- ❖ They manage and ensure the network runs smoothly and uninterrupted.
- ❖ They connect all hardware and software and set up all programs, such as everyone’s email, to the computer system.
- ❖ They work with individual users, troubleshoot crashes and slow performance and are responsible for developing an emergency back-up system to preserve essential data.
- ❖ They must record all system errors and how they were repaired.
- ❖ They must also set up security measures to keep unauthorized users from accessing company files.

**Network systems engineers**

- ❖ Are responsible for setting up the network infrastructure the administrator oversees.
- ❖ Engineers maintain and watch over the security systems the administrator set up, and work with them to develop firewalls and back-up systems to the main network server.
- ❖ Engineers are responsible for the configuration of the network, maintaining all the equipment and logging any maintenance performed.
- ❖ The engineer is the fine tuner to the network system

**Network computer programmers**

- ❖ Are administrative-style jobs that create and design critical data structures for each computer
- ❖ They analyse the system’s software requirements, develop new applications and maintain existing ones.

- ❖ They are there from start to finish on all computer applications.
- ❖ They literally tell the computer what to do and how to grasp the information given.
- ❖ The programmer must meet all system standards, creating the proper codes and communicate well with perfect understanding.
- ❖ Programmers must also have exemplary presentation skills.

**Network systems managers**

- ❖ Guide, manage and supervise the entire Internet and computer operation.
- ❖ Managers are in charge of the workplace, assign projects and programs to their employees and give reports to upper management.
- ❖ They are responsible for each department in the operation to include many programmers, analysts and technologists.
- ❖ They must be educated in every area of the computer network system.
- ❖ Managers must ensure the availability of each department’s equipment, order and allocate resources as necessary and be familiar with industry developments and more

**Network service technicians**

- ❖ Identify and fix network troubles
- ❖ They troubleshoot components and hardware such as coaxial and fiber-optic cables
- ❖ They must have extensive knowledge in Internet connections and in linking computers within a network

❖ They plan and analyse cost for the company's computer network system and determine correct layouts, configurations and connection devices

❖ They must be abreast on modern terminology and be able to resolve any problem within the computer system

**ACTIVITY**

**1. Differentiate between network engineer and network administrator (2 marks)**

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**2. Copy and complete the table given below (10 marks)**

<b>Career</b>	<b>Two responsibilities</b>
<b>Network administrators</b>	
<b>Network systems engineers</b>	
<b>Network computer programmers</b>	
<b>Network systems managers</b>	
<b>Network service technicians</b>	