1. **Which computer hardware is** responsible for processing the instructions given to a computer? (1mark)
2. **Why is the BIOS considered a non-volatile memory? (2 marks)**
3. **What does POST stand for? (1 Marks)**
4. **Mention four departments of a company and state one function for each. (8 marks)**

|  |  |
| --- | --- |
| **Department** | **Function** |
|  |  |
|  |  |
|  |  |
|  |  |

1. **The start topology is the most common in computer Networks. State two advantages and two disadvantages of this topology. (2 marks)**
2. **Fill in the layers of the TCP/IP and OSI models and the missing protocols of the transport layer. (10 marks)**

|  |  |  |
| --- | --- | --- |
| **TCP / IP model** | **Protocols & services** | **OSI model** |
|  | **HTTPS, HTTP, FTTP, Telnet, NTP, DHCP, PING** |  |
|  |
|  |
| **Transport** |  | **Transport** |
|  | **IP, ARP, ICMP, IGMP** |  |
|  | **Ethernet** |  |
|  |

1. **Explain how the VPN is a secure method of sharing data through the internet.**

**(6 marks)**

1. **Give the meaning of the following abbreviations. (10 marks)**

* **IDE**
* **HTTPS**
* **VPN**
* **DHCP**
* **CPU**
* **WLAN**
* **VLAN**
* **ERP**
* **UEFI**

1. **State four measures of maintaining the health of your computer (4 marks)**

**1)**

**2)**

**3)**

**4)**

1. **State 2 advantages and 2 disadvantages of the cloud storage. (4 marks)**
2. **What is referred to as the single point of failure in the Star topology (2 marks)**
3. **State four other network topologies apart from the star topology. (4 marks)**

**1**

**2**

**3**

**4**

1. **What is the English translation of the following German Vocabulary? (10 marks)**

* **Instand halten**
* **Installieren**
* **Fehlerhaft**
* **Leistungsfähigkeit**
* **speichern**
* **Symbolleiste**
* **Quellcode**
* **Umsetzen**
* **Übermitteln**
* **Anbieter**

1. **Name four input devices and four output devices. (8 marks)**

|  |  |
| --- | --- |
| **Input** | **output** |
|  |  |
|  |  |
|  |  |
|  |  |

1. **ERP and BI are examples of Enterprise software. (7 marks)**
   1. **what do these initials stand for?**
   2. **State the difference between the two.**
   3. **What are the benefits and the drawbacks of these software for a company?**
2. **Differences**

|  |  |
| --- | --- |
| **ERP** | **BI** |
|  |  |
|  |  |
|  |  |

1. **Name three Benefits and three drawbacks of the software for a company (3 marks)**

1. **Compare wired and wireless connection. What are the advantages and the disadvantages of each? (6 marks)**
2. **What is referred to as the single point of failure in the Star topology (4 marks)**