**DATA COMMUNICATION AND NETWORKING**

1. Distinguish between **data communication and** **computer network?**

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1. State five benefits of networking

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1. Give any four *limitations* of networking

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1. Explain the term data signal?

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1. Differentiate between a baseband and broadband signal

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1. State the difference between a **network server** and workstation**.**

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1. What is a **stand-alone** computer?

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1. Explain the **three** most common types of networks used today

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1. What is bandwidth?

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1. What is a *“resource”* in networking?

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1. Differentiate between **half duplex** and **full duplex**

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1. Define the term transmission media

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1. Differentiate between a router and gateway

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1. Why is a switch preferred to hub on a network?

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1. Describe five devices used in data communications.

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1. What is the function of a repeater on a network?

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1. Give one area of application of infrared transmission.

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1. What is the importance of a gateway on a network?

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1. State four advantages of satellite communications.

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1. Mention five advantages of fibre optic media

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1. State three advantages of coaxial cables

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1. State the difference between STP and UTP

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1. Explain the concept of line of sight in wireless communications

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1. What is meant by the term network software?

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1. State two types of network software

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1. State any four examples of networking operating systems.

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1. Explain any three tools used in terminating a network cable

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1. Outline the functions of network operating systems

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1. Give any three examples of protocols used in networking

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1. Define the term network topology

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1. Distinguish between logical and physical network topologies

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1. Distinguish between Ethernet topology and token ring topology

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1. Explain any five network topologies used in networking.

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1. What five factors would you consider before choosing a topology for your network?

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1. Define the term protocol

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1. Distinguish between asynchronous and synchronous transmissions

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1. What is noise?

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1. What causes noise in data communication?

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1. Distinguish between peer-peer and client-server architecture

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1. State four requirements for setting up client-server network

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1. Why would you install a server in a network?

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1. Distinguish between user-level and share level network security

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1. What is a wireless network?

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1. What do you understand by; Wi-fi, Li-fi, WiMax, MODEM, multiplexing,

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1. Mention five merits and demerits of wireless networks.

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1. State the advantages and of electronic transmission over manual transmissions

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1. Explain four benefits of configuring intranets in an organization.

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1. What is meant by access point in a network?

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1. Explain the advantages of using access points in school

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1. What is the internet?

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1. Explain five uses of the internet

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1. State four advantages and four disadvantages of the internet

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1. State any four hardware component required for your school to gain access to the internet

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1. Discuss five common internet services you know

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1. Discuss three transmission media used to connect to the internet

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1. Explain five advantages of using wi-fi connectivity to access internet in your school

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1. Give five advantages and disadvantages of using wireless transmission media to connect to the internet

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1. What is the difference between the internet and the www?

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1. Explain the structure of the following internet address [**http://www.google.com**](http://www.google.com)

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1. With examples, define the term web browser

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1. What is an e-mail?

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1. Mention four advantages and disadvantages of using the e-mail other than an original post office

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1. Describe three basic parts of an e-mail

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1. Differentiate between replying and forwarding in an e-mail

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1. Distinguish between CC and BCC in an e-mail

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1. What is an e-mail bounce?

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1. Distinguish between soft and hard bounce

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1. What is an e-mail software? State three examples

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1. Explain four uses of e-mail software

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1. What is a search engine? State examples

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1. Write the following protocols in full; TCP/IP, HTTP, FTP, SMTP

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