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Type A – Short Answer Questions

(Detailed explanations are given in EduSuccess Study Notes – Unit 5)

1. Define a network. What are its advantages/needs?

Network : A computer network is a collection of interconnected autonomous computers for the purpose of sharing resources. Each computer on the network is called a node or workstation.

Advantages of Networking

1. Resource Sharing : All programs, data and peripherals are available to everyone irrespective of the location of the resource and the user.
2. Reliability: Backup copy of a file is kept on different machines, which is available in case of hardware crash or any other problem.
3. Cost is reduced because the resources can be shared.
4. Changes made by any user on a shared resource over a network are conveyed to all other users.

2. Write two advantages and disadvantages of networks.

Advantage: (i) We can share resources such as printers and scanners.

(ii) We can share data and access documents/files from any computer at any location.

Disadvantage : (i) Network failure can cause loss of data.

(ii) Data Security : A computer network may be used by unauthorized users to steal or corrupt the data and even to deploy computer virus or worms on the network.

3. What is ARPANet? What is NSFNet?

ARPANet (Advanced Research Project Agency Network) is a project sponsored by U. S. Department of Defense.

NSFNet was developed by the National Science Foundation which was high capacity network and strictly used for academic and engineering research.

4. What do you understand by Interspace?

It is a client server software program that allows multiple users to communicate online with real time audio, video and text chat in dynamic 3D environment.

5. Name two switching techniques and explain any one.

Circuit Switching, Packet Switching

Circuit Switching : In this technique, first a physical connection between two computers is established and then data are transmitted from the source computer to the destination computer over that physical path.

6. What is a communication channel? Name the basic types of communication channels available.

It is a medium through which a message is transmitted to its intended destination. Communication channel can be wired (Guided) or wireless (Unguided).

Basic communication channels available are : Twisted Pair Cables, Coaxial Cables, Fiber Optic Cables, Infrared waves, Radio waves, Microwaves, Satellite link etc.

7. Define Baud, bps and Bps. How these are interlined?

Baud : It is a unit of measurement for the information carrying capacity of a communication channel.

Bps : bits per second. It refers to a thousand bit transmitted per second.

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