

Experiment

Assignment - 102

Date:

Data Communication

Que 1) What are the different types of network

Ans. → (1) Personal Area Network (PAN)
(2) Local Area Network (LAN)
(3) Wireless Local Area Network (WLAN)

(4) Campus Area Network (CAN)
(5) Metropolitan Area Network (MAN)
(6) Wide Area Network (WAN)
(7) Storage Area Network (SAN)
(8) system - Area Network (also known as SAN)

Que 2) Explain the shielded twisted pair (STP) and unshielded twisted pair (UTP)

Ans. →
Que 2) → SHIELDED TWISTED ⇒ Shielded twisted pair cable (STP) has the individual pairs of wires wrapped in foil which are then wrapped again for double protection.

• UNSHIELDED TWISTER ⇒ unshielded twisted pair cable (UTP) has pair of wires twisted together these are then wrapped in tape without any other

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Q3 ⇒ What is difference between narrowband and broadband transmission?

Ans 3 Broadband ⇒ System use modulation techniques to reduce the effect of noise in the environment. Broadband transmission employs multiple channel ~~unidirectional~~ bidirectional transmission using combination of phase and modulation.

Baseband ⇒ is a digital signal is transmitted on the medium using one of the signal codes like NRZ, RZ.

S.No	Baseband Transmissi	Broadband TransMissi
<1>	In baseband transmission type of signalling used is digital.	<1> In broadband transmiss the type of signalling used is analog.
<2>	Baseband trans is bidirectional in nature.	<2> Broadband transmissi is unidirectional in nature.
<3>	It works well bus.	<3> It is used with a bus or tree topology.

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Quesy $\Rightarrow$ What is the difference between a modern router and a Switch?

Ans $\Rightarrow$ (1) HUB $\Rightarrow$ Unlike switched, broadcast a data to all parts, which is inefficient as hubs are a multiport repeaters.

(2) MODEM $\Rightarrow$ Stands for Modulatory are hardware devices, allow a computer another device as a router or switched to connect to the internet. They convert or modulate.

(3) ROUTER $\Rightarrow$ They use the MAC address of a to send data only to the part the destination device is allow a computer another device as a router.

Experiment

Date:

Ques:-> When you move the NIC cards from one PC to another PC, does the MAC address get?

Ans:-> MAC addresses are burned into the NIC card and transfer with the network, adapt.

(1) Having said that, I can't think of an even modern OS that A. don't let you change it to whatever you want in this configuration. of the device I've changed MAC address of computers many times over the years.

(2) A software license to a particular MAC address. whether became you can easily change it if I want to move in to a new server I am first change a company.

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Date :

Que 6) When troubleshooting computer network problems what common hardware-related problems can occur?

Ans) A large percentage of a network is made up of hardware. Problems in there can range from malfunctioning hard drives broken NICs and even hardware startups.

Que 7) In a network that contains two servers and twenty workstations, where is the best place to install an anti-virus program?

Ans) An anti-virus program must be installed on all servers and workstation to ensure protection. That's because users can access any workstation and introduce a computer virus when plugging in their removable hard drive or flash device.

Que 9) Discuss TCP/IP model in detail.

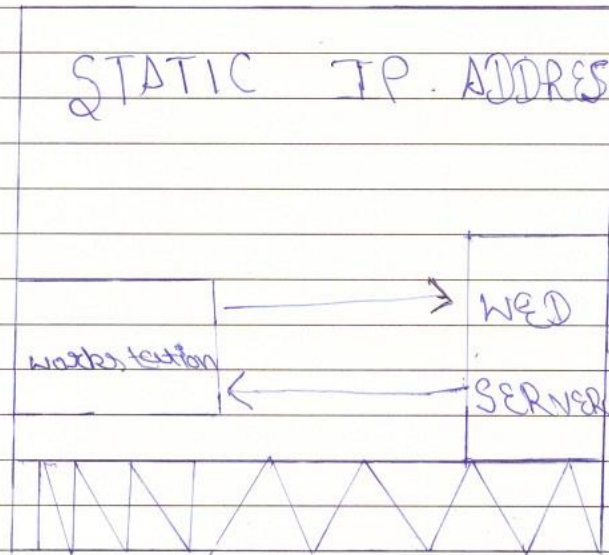
Ans) Introduction to the TCP/IP Model
The TCP/IP model is a part of the Internet protocol suite. This model acts as a communication protocol for computer networks and cannot parts on the Internet. It is a concise

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Ques → Define static IP and dynamic IP? Discuss the difference between IPv4 and IPv6?

Ans →



Ques → What is a web browser (browser)? Example

Ans → A web browser or browser for short is a computer software application that a person to locate, retrieve, and display content such as web pages, images as well. Browsers work because every web page image and video on the web page image own unique uniform location (URL), allowing the browser to

Example of Browsers → Internet explore
Google chrome Mozilla Fire fox Safari etc.

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Ques 1) → What is a search engine? Give example?

Ans → A search engine is a web-based tool that enables users to locate information on the World Wide Web. Popular examples of search engines are Google, Yahoo and MSN Search.

Ques 2) → What is the Internet WWW? What are the uses of Internet in our daily life?

Ans → There are many uses of the Internet however the uses of the Internet in our daily life depends on individual requirements and goals.

- Uses of the Internet in Education.
- Internet used to speed up daily tasks.
- Use of the Internet for shopping.
- Internet for Research Development.
- Digital Transactions.

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Date :

<13>

Que → What is an Internet Service Provider?
Give some example ISP in India?

Ans → The example of some internet service provide are Hathway BSNL, Tata teleshervices, veriz, Reliance Jio, Airtel Fibernet and many more working in India as well as worldwide. The several services provided by them are internet transit and access, domain name registration, web hosting and colocation.

<14>

Que → Discuss the difference between MAC address, IP address and Port address?

Ans → The main difference between MAC and IP address is that, MAC address is used to ensure the physical address of computer. It uniquely identifies the devices on a network; while IP address are used to uniquely identifies the connection of network with that device take part in a network.

<15>

Que →
(1) Open the Google Chrome internet browser.
(2) in the upper-right corner of the.
(3) in the drop-down menu that appears.
(4) the following page contains your device's history.