check

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1 185093A –Yamunanga L.K.H

Quection1

1).

The private IP address of the system is the IP address used for communication within the same network. The use of data or private IP information can be sent or received on the same network.

The public IP address of a system is the IP address used for communication outside the network. Basically, the ISP (Internet Service Provider) assigns a public IP address.

Ex:- If you have multiple computers in your house, you can use private IP addresses to target each computer in your house. In this scenario, your router gets the public IP address, and each of the computers, tablets and smartphones connected to your router (Via Wi-Fi or cable) gets a private IP address from your router via DHCP.

2).

Dynamic IP address	Static IP Address	
it is provided by Dynamic Host Configuration	It is provided by Internet Service Provider	
Protocol.	Article Error (ES)	
low amount of risk than static ip address's risk.	less secure.	
easy to designate Article Error (ETS)	difficult to designate p. (5)	
used where data is more confidential	used where data is less confidential.	
maintaining cost of dynamid ip address is less	cost to maintain the static ip address is higherap	
Article Error (15) Article Error (15)	than dynamic.	
less stable	more stable Sentence Cap. (63)	

3).

The internet system for converting names to numeric IP addresses. For example, when a URL is entered into a browser, DNS servers will return the IP address of the web server associated with that name. In this example, the DNS URL www.facebook.com converts to the IP address 204.1.8.31. Without DNS User have to type the string of four numbers and dots into him/her browser to open the site.

4).

Gateway is a hardware device that works as a "gate" between two networks. It can be a router, firewall, server, or other device that allows traffic to enter and leave from the network.

A firewall is a network security device that monitors incoming and outgoing network traffic and uses defined security rules to decide whether certain traffic is allowed or blocked. They form a barrier

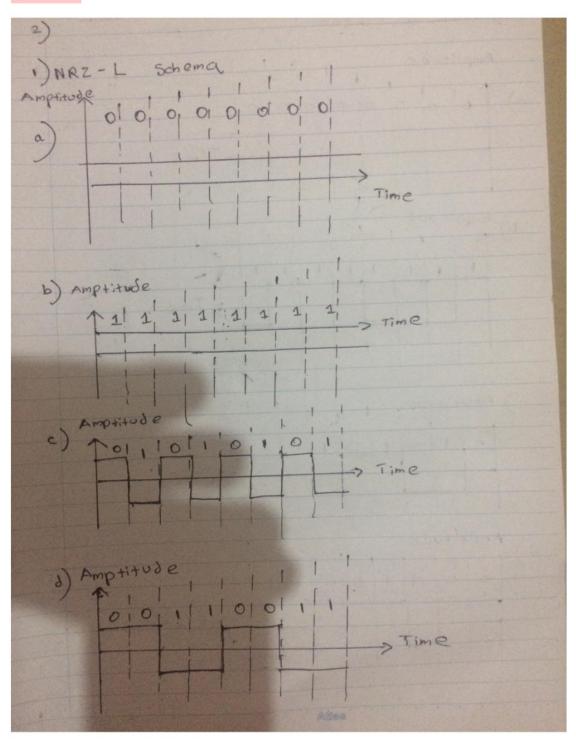
between controlled and trusted internal networks and untrusted external networks, such as the Internet. A firewall can be hardware, software, or both

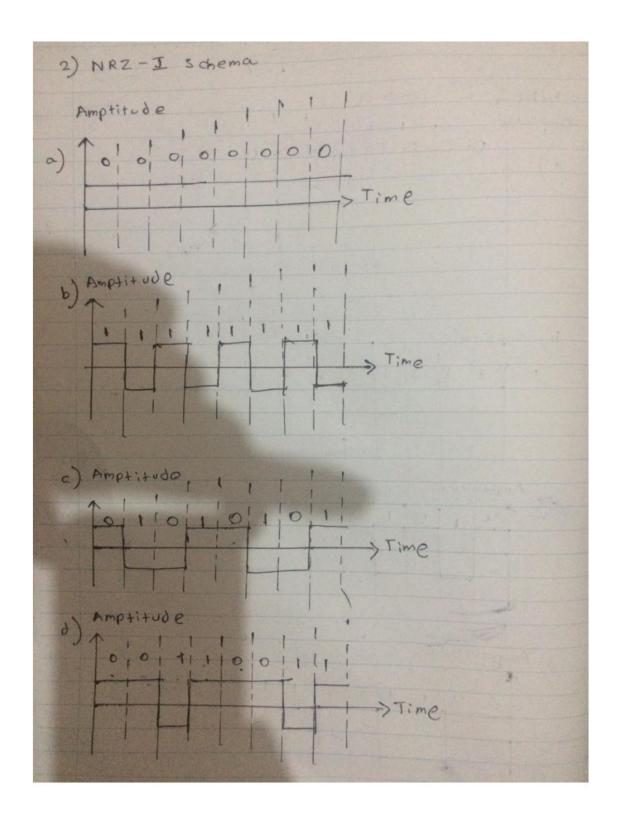
5).

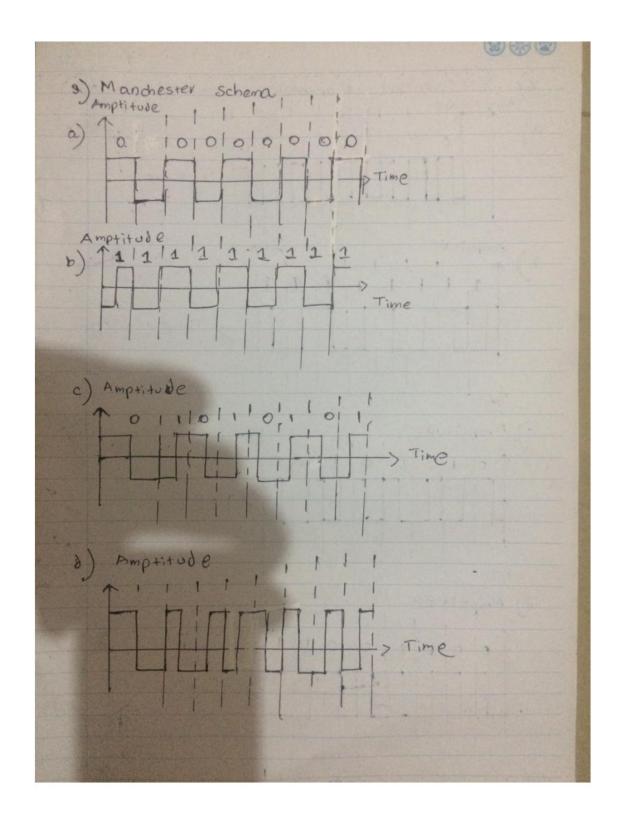
Routers guide and send data over the network using packets that contain various types of data, such as files, communications, and simple transfers such as web interactions.

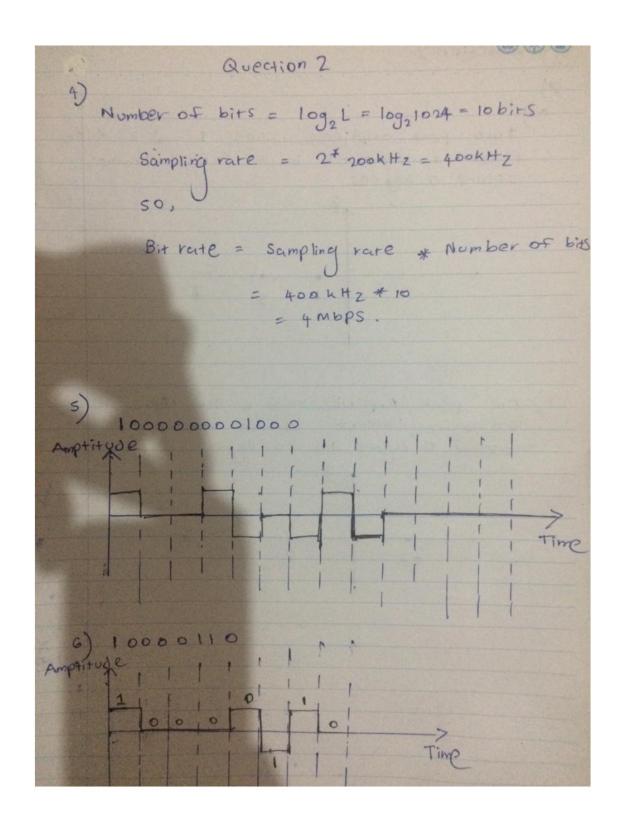
Data packets have several layers or sections, one of which contains identifying information such as sender, data type, size and, above all, the IP (Internet Protocol) address. The router reads this layer, prioritizes the data, and selects the best route for each transmission.

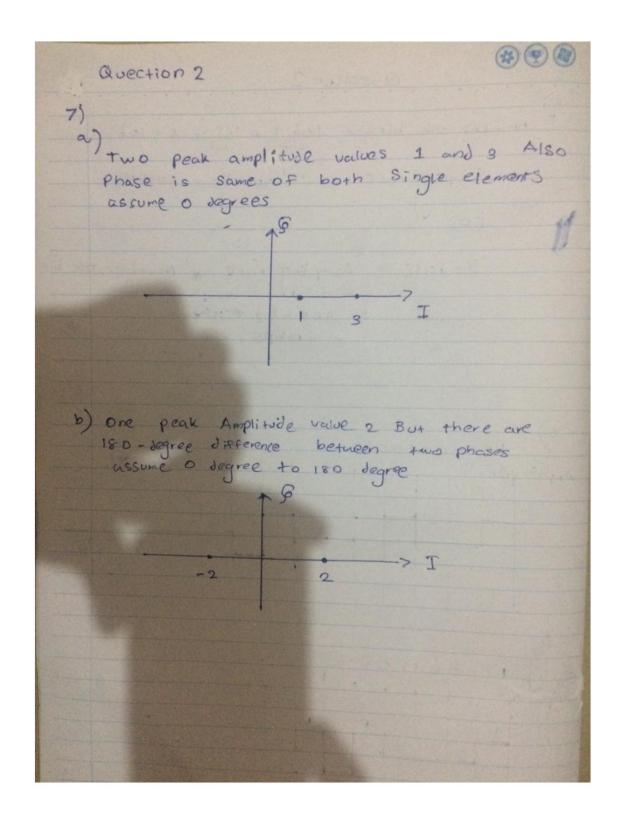
Quection2











Quection3

1).

- Airtel (Sri Lanka)
- Dialog Axiata
- Etisalat (Sri Lanka)
- Hutch (Sri Lanka)
- Lanka Bell
- Mobitel (Sri Lanka)
- Sri Lanka Telecom

2).

5G faster than 4G

With 5G at 10 gigabits per second, up to 100 times faster than 4G, 5G networks can deliver the level of performance required by an increasingly connected community.

5G Latency lower than 4G

 Better performance with 5G also means the time between sending and receiving information is lower.

For 4G that's 200 milliseconds, not far from the 250 milliseconds it takes for people to respond to visual stimuli. 5G latency is significantly lower - just 1 millisecond.

Network slicing easier when it comes to 5G

Implementing 5G can solve this problem, as network sharing becomes much easier as
the network is divided to account for speed, capacity, coverage, encryption, and security
when redistributing resources from one part of the network to another part "whatever
is necessary.

3).

Cloud computing is the platform of various services over the Internet. These resources include tools and applications such as storage, servers, databases, networking, and software. Instead of storing files on your own hard drive or a local storage device, they can be stored in an external database with cloud storage. As long as an electronic device has access to the Internet, it can access the data and the software to run it. Cloud computing is a popular choice for

individuals and businesses for a variety of reasons, , increased productivity, including cost saving ,speed and efficiency, security and performance.

4).

- Television and Radio Broadcasting
- Radio Frequency Identification (RFID)
- Satellite Communication
- Mobile Telephone System (Cellular Communication)
- Radar Article Error
- Infrared Communication
- Global Positioning System (GPS)
- WLAN (Wi-Fi)
- Paging
- Bluetooth
- Cordless Phones

5).

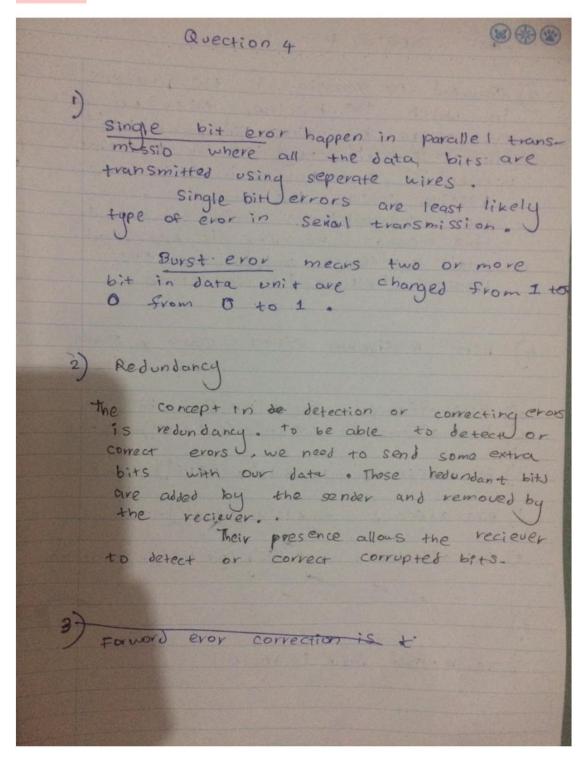
Reliability of Network

 The WAN provides consistent coverage and speed under all circumstances, but network security fluctuates more in response to certain variables. These variables are difficult to control and even more difficult to eliminate completely.

Less Security

The WAN can be vulnerable to cybercriminals looking for potential vulnerabilities. WANs
can be exploited by anyone who can overcome their security layer.

Quection4



queation +

- in which the reciever tries to guess the message by using redundant bits.

 correction by to retranscorrection by to retransmission is a technique in which the receiver detects the occurrence of an ever and asks the sender to resend the message a resending is kepeated until a message arrives that the Reciever believes is ever free.
 - 4) bits maximum effect = Data * Burst rate time
 - a) Bits affected = 1500 * (2*103) = 3 bits b) Bits affected = 12* 103* (2* 103) = 24 bits
 - c) Bits affected = 100 * 103 * (2*10-3)=200 bits
 - d) Bits affected = 100 x 10 x (2x 10-3) = 200000 bits
 - e) Bits affected = 1000* 105 * (2 * 10-3) = 2000000bits

5)

a) The received data is 1011011

Network ID	Subnet mask	Host ID Range	No of usable hast	I D
194.248.4.0	/26	194.248.4.1 - 194.248.4.6	. 62	194.248.4.
194.248.4.64	126	194.248.4.63 -	62	194. 248.
194.248.4.	126	194.248.4.127 -	62	194.248.4.
194.248.4.	126	194.248.4.193 -	82	194.248.4.

check

ORIGINALITY REPORT

100% SIMILARITY INDEX

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100%

STUDENT PAPERS

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Submitted to University of Moratuwa

Student Paper

100%

Exclude quotes

Off

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Off

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Off

check



- Missing "," Review the rules for using punctuation marks.
- Article Error You may need to use an article before this word.
- P/V You have used the passive voice in this sentence. You may want to revise it using the active vol
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- P/V You have used the passive voice in this sentence. You may want to revise it using the active voice
- **Frag.** This sentence may be a fragment or may have incorrect punctuation. Proofread the sentence be sure that it has correct punctuation and that it has an independent clause with a complete subject and predicate.
- **Sentence Cap.** Review the rules for capitalization.
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- Article Error You may need to use an article before this word. Consider using the article the.
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- Sentence Cap. Review the rules for capitalization.
- **Frag.** This sentence may be a fragment or may have incorrect punctuation. Proofread the sentence be sure that it has correct punctuation and that it has an independent clause with a complete subject and predicate.
- **Confused** You have used either an imprecise word or an incorrect word.
- Article Error You may need to remove this article.

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ETS)	Sp. This word is misspelled. Use a dictionary or spellchecker when you proofread your work.
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ETS)	Sp. This word is misspelled. Use a dictionary or spellchecker when you proofread your work.
ETS)	Article Error You may need to remove this article.
ETS)	Article Error You may need to use an article before this word.
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ETS)	Article Error You may need to use an article before this word. Consider using the article the.
ETS)	Sp. This word is misspelled. Use a dictionary or spellchecker when you proofread your work.
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