1. Why the RTS and CTS are not used in CSMA/CD?

CSMA/CD stands Carrier Sense Multiple Access with Collision Detection, that means it provides different mechanisms and methods to detect collisions. RTS/CTS are used in wireless networks because wireless networks cannot detect the collision, hence, there has to be a way to maintain the communication collision free.

Define routing and forwarding?

Routing is the process of selecting a path for packets to travel in a network.

Forwarding:

Explain bellman ford algorithm?

Define the network mask?

*32-bit number of contiguous 1's followed by contiguous 0's.

To help to find the net ID and the host ID.*

What is the difference between slotted aloha and CSMA?

*Main difference between Aloha and CSMA is that Aloha protocol does not sense whether the channel is free before transmitting.

CSMA sense the channel if its free before transmitting data.*

Ethernet frame?

	Preamble	SFD	Destination address	Source address	Length or type	Data and padding	CRC
ľ	7 bytes	1 byte	6 bytes	6 bytes	2 bytes		4 bytes

CRC→ binary division Sender and receiver

Slotted time in Ethernet .. given 10 mb

Max & Min Ethernet frame: Minimum: 64 bytes (512 bits) Maximum: 1518 bytes (12,144 bits)

Explain with a diagram how the CSMA/CA uses different inter frame between the frames?



