

AP CSP

Unit 1 - Part 2 - Test Review

Name: Key

1. Define the following terms:

- IETF - Internet Engineering Task Force - develops and promotes voluntary Internet standards and protocols, in particular the standards that comprise TCP/IP
- Internet - a group of computers and servers that are connected to each other
- Net Neutrality - the principle that all Internet traffic should be treated equally by Internet Service Providers
- Internet Censorship - the control of what can be accessed, published or viewed on the Internet
- IP Address - A number assigned to any item that is connected to the Internet
- Packets - small chunks of information that have been carefully formed from larger chunks of information.
- Protocol - a set of rules governing the exchange or transmission of data between devices.
- Router - computers that direct messages toward the target computer based on the IP address included in the message.
- TCP - Transmission Control Protocol - provides reliable, ordered, and error-checked delivery of a stream of packets on the Internet. TCP is tightly linked to IP (TCP/IP)
- DNS - The service that translates URLs to IP addresses
- HTTP - Hypertext Transfer protocol used for transmitting web pages over the Internet
- URL - An easy-to-remember address for calling a web page (like `www.code.org`)

2. Describe the redundancy of routing between two points on the Internet.

There are many paths over routers between locations → allows for efficiency in finding the path with the least traffic

3. Give one example of how computing has a global effect - both beneficial and harmful - on people and society.

4. Describe at least one vulnerability of DNS and how an attack on it works.

5. Explain how layers of protocols allow the Internet to function (drawing a picture may help).

