

Part I

- I) A) Application
B) Transport
C) Network
D) Link
E) Physical

2) UDP is not as reliable as TCP; for, it does not feature flow control, congestion control, or security to name a few.

- 3) ~~Q~~ A) Dial-UP / Phone line
B) Fiber-Coaxial Cable
C) Digital Subscriber Line
D) Ethernet/WiFi
E) Switched Ethernet
F) 3G/4G/5G

4) HTTP: 80

SMTP: 25

5) A server is a program or computer that ~~A server tends to be more powerful~~

A server is a dedicated computer that provides processing or holds data for a client computer to receive.

Servers ~~are~~ tend to be more "powerful" computers; servers wait for incoming requests and a client sends requests to servers

6)

Part 1

- 7) Because DASH allows clients with different Internet access rates to stream video at different encoding rates
- 8) Seeder-Peers method where the seeder (user w/ most data of file) provides the peer (the user who wants to download) the respective "chunk" of data needed for file.
- 9) Enter Deep: A deployment of server clusters in access ISP.
Bring Home: Brings the ISPs "Home" by building large clusters at a smaller number of locations.
- 10) 1. It tells the proxy server that content was not modified (304)
2. Sends updated content (200)

~~Q. Q) Internet Protocol~~
~~B) User Datagram~~

Part 2 | Part 3

- 1) True
- 2) False
- 3) False
- 4) True
- 5) True
- 6) False. $\frac{L}{R} = \text{Packet transmission delay}$
- 7) True
- 8) False
- 9) False
- 10) True

- 1) D
- 2) A
- 3) B
- 4) C
- 5) B
- 6) B
- 7) C
- 8) B
- 9) B
- 10) D