(Mobile Computing)

Mid Paper
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Explain why wired networks have higher bandwidth in comparison to mobile networks.

The thing which leads to matters in wired network bandwidth is **Frequency** which is likely to be less than mobile network**,** which is measured in billions of bits per.

Example: Fiber-Optic.

Cat6-a cable would give you the speed 10 Gbps but that is not enough if you are accessing an internet connection that gives you maximum of 100 Mbps

While the mobile network 802.11ac would you speed of 866.7 Mbps.

Explain the relation between miniaturization and portability.

Object/Hardware must be manufactured with a total of size that could not face any difficulties to move from one place to another. It also satisfy the rules and prediction of portability.

Differentiate between convergence and divergence

Convergence simply means that:

> ➢ Coming together

Divergence means that:

> ➢ Moving apart

These describe the directional relationship of two trends, prices or indicators etc.

Suppose you are given the task of designing an app for mobile devices which has the capabilities of text chat, recorded audio message, and live video conferencing. Explain which protocol out of UDP and TCP would you use for each type of service and why?

While going to design an android app, i would use TCP protocol always in all of the **mentioned below**, because it gives us **reliable**, connection **oriented** and segment **sequencing** jobs.

- ➢ Text chat
- ➢ Recorded audio message
- ➢ Live video conferencing

Suppose you have the choice of using 2G, 3G, 4G, 5G, Wi-Fi and Satellite networks. Which of these technologies will you use in the following scenarios and why.

a) 5G
Because it would provide high speed, low latency and connectivity to enable a new generation of application

b) 2G
Because here I just need to overcome for voice and internet service.

c) 4G
because only normal quality and video conferencing.
As the requirements are in normal.

d) I would prefer to use satellite network because it would help you to communicate worldwide.

e) Wi-Fi
because with 200 end devices we are going to share our informations.

f) 3G
because only we are with requirement of the voice not, text and internet service.