1. **State two technical concerns about P2P.**

Address volatility old addresses may not work (hence trust based on repetitive dealings is difficult)

Absence of central control (hence risk of anarchy)

Inadequate server participation (over-grazing)

1. **How does Facebook make money?**

Facebook Ads. Select your specific audience. Targeting options allow to filter users based on interests, demographic and geographic filters. You can reach the right audience and your ads will be seen only by users you have profiled.

1. **In the context of social media services, distinguish between Interaction and Collaboration activities.**

Interaction activities – 1 to 1 or 1 to few

Collaboration activities – 1 to many

1. **Distinguish three categories of Attacker.**

An authorized user’s explicit, intentional action

An authorized user’s implicit, unintentional action

An act by someone other than an authorized user

1. **Provide two examples of Harm to your interests that can result from the use of locational data.**

Breach of personal data security or privacy

Abuse of privilege

1. **State two cloud reliability issues that have been reported over the last few years.**

* Outages are not uncommon.
* Outages arise from multiple causes
* Providers’ safeguards are sometimes ineffective
* Failure cascades are prevalent
* Providers have had to be forced to be responsive
* Providers have often been uninformative
* Outages may affect important ancillary services
* The direct impacts have sometimes been significant
* Indirect impacts have often been even more significant
* Few customers are recompensed

1. **Identify two key differences in the computer-using habits of typical GenXers and iGens.**

GenXers work to have more life while iGens put life before work.

GenXers grew up with PCs and email while iGens grew up with texting and social networking

1. **List three ways in which payments can be made using mobile devices.**

* Commerce
* Ecommerce
* MCommerce
* Consumer-to-Consumer (C2C)

Contactless chip payment

* Credit-cards
* RFID
* NFC tags

1. **How does Google make money?**

Google AdWords. (Pay-per-click) Advertisers pay the publisher when the ad is clicked.

1. **List two key concepts in the conventional security model.**

A threat is a circumstance that could result in harm

A vulnerability is a susceptibility to a threat

Harm is any kind of deleterious consequence to an asset

A safeguard is a measure to counter a threat

A countermeasure is an action to circumvent a safeguard

1. **Provide examples of Safeguards that prevent Harm to personal data and that detect Harm.**
2. **State one function of an application gateway.**

Can translate from one format to another. Eg. an email gateway could translate Internet messages to SMS for mobile phones.

Can provide security services - look inside packets and decide what policies to apply.

1. **Name a device that is used to connect a LAN (eg, your home network) to the Internet.**

A router.

1. **List three privacy concerns about social networking services.**

Data collection

Data exploitation

Service-provider rights

Functionality and user interfaces

1. **How does a router decide on which output line (or network interface) a particular packet is to be sent?**

By using its routing table.

1. **Differentiate between forward and reverse proxies.**

A forward proxy acts on behalf of (generally internal) clients with respect to the outside world. Client/proxy/outside-world

A reverse proxy acts as a proxy to a number of servers. The outside world interacts with the proxy. Outside-world/proxy/servers.

1. **Why is a person's location, sometimes, for some people, a particularly sensitive piece of information?**

Location tracking - by marketing corporations, persons wanting to do harm, social control. Privacy issues.

1. **List three kinds of Threats to the Security of personal data stored on a computing device.**

Physical intrusion

Social engineering

Masquerade

Abuse of privilege

Electronic intrusion

1. **When you finish a Risk Assessment, what do you know that you may not have known before you did it?**

The extent to which expenditure on safeguards is warranted in order to provide an appropriate level of protection against the identified threats.

1. **Identify two key differences in the computer-using habits of typical Baby Boomers and Gen Yers.**

Baby Boomers - handshake/phone. PCs came late and they had to adapt to mobile phones. Work is life. Process-oriented.

Gen Y - Grew up with IM/chat, texting and video games. Strong multi-taskers. Work-life balance, expect fulfilment from work. Highly interactive.

1. **Identify two ways in which users' devices have significantly changed during the last 5-10 years.**

Smaller in size. Hence can be carried around easily.

More powerful - CPU speed/memory/storage

Highly connected. Can work offline.

Diverse - many kinds of devices - desktops, laptops, tablets and phones.

1. **What is MCommerce?**

The purchase of digital goods and services, such as images, audio and video, and location-specific data.

1. **State two advantages of P2P architectures.**

No single point of failure

Automatic load balancing

Inherent collaboration

Clients can find servers

Free-riding of the 'commons' is restrained