

- 1) What are some factors in why computer networking so complicated?
  - Variety of hardware devices which must communicate with each other (legacy, modern)
  - Software being developed which must be interoperable
  - Numerous protocols and communication standards
  - Complicated terminology and acronyms
  - Wireless and Mobility challenges
  - etc...
- 2) Complete the following **definitions**  
A network is a system for connecting computers using a single transmission technology  
  
The internet is a network of networks
- 3) Who invented the internet?  
No one person invented the internet, but DARPA financed initial research, and a number of universities devoted significant research personnel to developing and establishing communication protocols for interconnectivity hardware and software.
- 4) What is RFC  
A repository for comments, and the place to find (and post) the adopted standards for networking – in addition to a major resource for students and researchers in networking.
- 5) What is the IETF  
The Internet Engineering Task Force – who produces documentations which lay out standards for the Internet (without official decree).
- 6) Convert the following units:

800	B	=	6400	bits
12	KiB	=	98304	bits
3	MiB	=	25165824	bits
3	KiB	=	3072	bytes
120	B	=	120	bytes
12	Kbps	=	12000	bps
3	Mbps	=	3000000	bps
10	Gbps	=	10000000000	bps