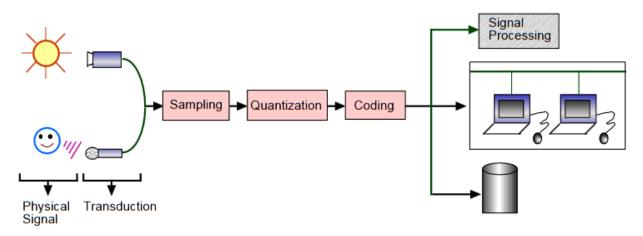
- 1) Give an example of a Code of Ethics for a computer professional?
- 2) Pick a form of copy protection and explain how it works
- 3) I have a video clip (no audio) that is:
 - 1200x300 pixels in dimension
 - 16 bit color
 - 30 frames a second
 - 20 seconds long
 - How many bytes does the video clip take up, uncompressed? You should write the formula.
 - How many bits per second does the file need to play at? You should write the formula.
- 4) You have an audio file that is:
 - 3 Minutes longStereo16 bit samples44.1kHzHow many
 - How many bytes does this audio clip take up, uncompressed? You should write the formula.
 - How many bits per second does the file need to play at? You should write the formula.
- 5) What are keyframes used for in Animation?
- 6) What device uses CMYK and which device used RGB. And why do they use those based on the properties of light?
- 7) Pick 2 image formats and discuss their differences and reasons why you would use one instead of the other.

- 8) For MPEG video compression what do the following types of frames represent?
 I-frames, P-frames, B-frames
- 9) What do sin waves have to do with compression?
- 10) What does Quantization do to values?
- 11) If you have an input signal of sound at 20kHz that you want to record, what is the minimum sample rate AND WHY?
- 12) What are some additional features of MPEG 4?
- 13) For JPEG, what happens at the DCT step?
- 14) Why does JPEG use a Zig Zag pattern for writing out the values in the block of data?
- 15) Can you give an example of a video application which would demand symmetric coding?
- 16) What does interleaving data on a CD help with and how does it accomplish this?
- 17) How does MP3 audio obtain a high level of compression?
- 18) How does a computer recognize the words that you speak?
- 19) The computer interface has changed over the years. Explain how it has changed and where is it going towards?

20) Please explain the diagram below of a **Generic Digital Multimedia System**



Gotten from page 164 of:

http://www.sci.brooklyn.cuny.edu/~goetz/cisc3630/books/Signal%20Computin g.pdf