Computer Network - HWO1.1

- 1. The range of frequencies that the signal occupies.

 (Between highest and lowest)
- 2. $\log(z)=1$ bit $\Rightarrow \log(8)=3$ bits, 3-1=2 bits
- 3. Nyquist Thm. => highest freq. x Z => z x zk = 4k (HZ/3)
- 4. (1) Sampling (2) Quantization (3) Encoding (eg. PCM encoder)
- 5. Shannon Thm. 3 C= Blog (1+ 点) = 108x log (4) = 200 M(bps)
- b. AM: The strength of the signal is conveyed through
 the magnitude of the amplitude. (frequency remains constant)

 FM: Stored in frequency variations. (amplitude remains constant)