i310 (IAC) - Midterm Review

Computer Labs (summary & lessons learned)
Computing Security rests on what elements? Goals of Computing Security?
Classes of integrity mechanisms
Broad classes of threats (according to text)
Define/Describe specific threats (snooping, DoS, masquerade)
Risk Cube
Understand security policy and/versus security mechanisms (how do they complement each other)
Hurdles to overcome that limit/delay implementation of security policy/implementation
Authentication (methods, adv/disadv)
Define cryptography (according Bishop definition) Transpositional ciphers Substitutional ciphers
Briefly describe public key encryption
What is a man-in-the-middle attack - how relevant to crypto?
Principle of Tranquility
Role Based Access Control – can you give an example
DNS (Domain Name Service), and what is its role in host identity?
What makes an entity trustworthy?
What is Software Assurance ?
What is a cookie? Its role in security?
Briefly describe malicious logic (according Bishop definition)
Briefly describe Trojan Horse
Describe Boot Sector Infector
Differentiate dynamic and static software scanners
Describe TSR (Terminate and Stay Resident) virus

