IS 376: INFORMATION TECHNOLOGY & SOCIETY
Exam #1 Review
Exam Date & Time: Tuesday, September 23, 2014, 11:00 AM – 12:15 PM

Professor White Portion – 90 Points

Format:
Ten 1-point short-answer questions (multiple-choice, true-false, matching)
Two 10-point essay/discussion question (10 points = 5 minutes = 3-4 sentences)
Three 20-point essay/discussion questions (20 points = 10 minutes = 6-8 sentences)

Topics:
The Uncanny Valley (10 points)
Article: “Leaving the Uncanny Valley Behind”
Course Notes: 8/19
The Uncanny, Robot/Film/Game Examples, Photorealism, Child Psychology

Virtual Reality (10 points)
Article: “Virtual Reality’s Moment”
Course Notes: 8/21
Virtual Environments, Digital 3D, Vergence/Accommodation, Simulator Sickness,
Inner Ear Balance, VR Latency, Oculus Rift, Google Cardboard

Civilian Drones (10 points)
Articles: “Open Source Drones for Fun and Profit” and “Open Season on Drones?”
Course Notes: 9/2
Drone Anatomy, Military Drones, Agricultural Drones, Public Safety Drones,
Law Enforcement Drones, Drone Power, Surveillance Drones, Drone Safety & Privacy Issues

Automated Automobiles (20 points)
Articles: “The Rise of the Crash-Proof Car” and “Robot, You Can Drive My Car”
Course Notes: 9/4
Satellite Navigation, 360° Sensing, V2V, V2I, Google Car, Volvo SARTRE, Magnetic Roads,
Driver Inattention, Automotive Network Hacking, Driver Irresponsibility

Indoor GPS (20 points)
Article: “You Are Here”
Course Notes: 9/16
GPS Interference, Indoor Positioning Systems, First Responder Positioning, RFID,
Apple’s iBeacon, Direct Sequence Spread Spectrum, Frequency Hopping,
Ultra-Wideband, 1G-2G-3G-4G-5G

Wearable Computers (20 points)
Article: “Beyond Words”
Course Notes: 9/18
Fitness Trackers, Smart Watches, Google Glass, Smart Contact Lenses, Haptic Underwear,
Brain-Computer Interaction, Bionic Skin, Gesture-Recognizing Ring,
Wheelchair-Driving Tongue Piercing, Gesture-Based Tools
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Professor Kapatamoyo Portion – 60 Points

The exam is based on Chapters 1-5 of J.L. Harrington’s textbook, assigned articles, and the PowerPoint slides.

You must know the following:

- Issues and themes surrounding computers
- Origin of computer errors.
- HAVA / Direct Recording Electronic Voting
- The Privacy Act of 1974
- Luddites
- Social movements
- Social Movement Theory
- Hacktivism
- Civic participation
- Cyber Activism
- Technology determinism
- Surveillance studies, technologies and privacy.