**ECE 3544: Digital Design I**

**Project 1 (Part B): Simulation in the ModelSim Environment; Continuous Assignment Models**

Student Name: Sefunmi Ashiru

Honor Code Pledge: I have neither given nor received unauthorized assistance on this assignment.

Sefunmi Ashiru

**Grading: The design project will be graded on a 100 point basis, as shown below:**

Manner of Presentation (25 points)

Completed cover sheet included with report (5 points)

Organization: Clear, concise presentation of content; Use of appropriate, well-organized sections (10 points)

Mechanics: Spelling and grammar (10 points)

Technical Merit (75 points)

General discussion: *Did you describe the objectives in your own words? Did you address the questions posed in the project specification?* (10 points)

Design discussion: *What was your approach to deriving the circuit you had to design?* *How does the design process that resulted in your continuous assignment model compare to the one you used to obtain a structural model that used primitive gates? How applicable is the design process you followed in this assignment to larger and more general designs?* (10 points)

Testing discussion: *What was your approach to formulating your test benches, and how did you verify the correctness of your design and implementation?* (10 points)

Conclusions: *Did you discuss the lessons you learned from the assignment? Did you discuss the applicability of your design process to larger and more general designs? Did you assess your implementation?* (10 points)

Supporting figures (15 points total)

* *Correct waveforms showing simulation of both decoder modules.* (3 points)
* *Correct waveforms showing correct operation of your design.* (6 points)
* *Quartus reports and schematics* (6 points)

Supporting files: *Do the submitted files produce the correct response?* (20 points)

**Project Grade**