ARCH 614: Practice Quiz 3

Note: No aids are allowed for part 1. One side of a letter sized paper with notes is allowed during part 2, along with a silent, **non-programm**able calculator. There are no reference charts for part 2.

Clearly show your work and answer.

Part 1) Worth 5 points (conceptual questions)

Part 2) Worth 45 points

(NOTE: The units, dimensions, loading and reactions for the beam <u>can and will</u> be changed for the quiz! The loading types will not.)

Given the beam to the right with the following loading and for which all support reactions have been determined, find:

- a) The completed shear diagram by indicating key values. Identify and locate the maximum shear necessary for design.
- The completed bending moment diagram by indicating key values. Identify and locate the maximum bending moment necessary for design.



