

CVG 2141 – CIVIL ENGINEERING MATERIALS

Quiz VII

Dr. Leandro F. M. Sanchez

Deadline: **November 18st, 2020**

1. Describe the advantages and disadvantages of wood.
2. Explain the strength of wood depending on its moisture content and density.
3. Explain the orthotropic properties of wood (i.e. presence of fibers) in terms of its tensile and compressive strength.
4. What are the likely durability problems of wood members? Cite the possible types of treatment to be done in order to improve the performance of long-term timber.
5. Calculate the MOR (MPa) and the shear stress (τ max; MPa) of the following wood/timber beam:

ASTMD 143

