

Student:	Test #1
Date: 23 Oct 2002	Reactor materials, reactor types.

Scope:	<ol style="list-style-type: none">1. List and explain the following for the materials for reactor coolants, moderators and fuel sheet:<ul style="list-style-type: none">□ Requirements,□ Alternative materials, and□ How each of the alternative materials meets the requirements.[35 points]2. List and explain the important design features of the reactor types shown in the attached sheet, and emphasize differences in design parameters of most significance. [40 points]3. Explain in a brief outline development strategy for nuclear power application for two different countries: one highly developed (with no capacity for fuel enrichment) but developed infrastructure, R&D services, and economic potential, and one for a developing country with low infrastructure, no R&D capability and low but growing economic potential. Focus on the following issues:<ul style="list-style-type: none">□ Type of reactor□ Type of fuel□ Reactor power□ Fueling arrangements□ Maintenance□ Staff training[25 points]
--------	---