MA651 Topology. Quiz 2. 31 January 2006.

1) Monomorphism and isomorphism of well-ordered sets.

2) Cantor-Bernstein Theorem.

3) Axiom of choice, Zorn's lemma, and Zermelo's theorem and their equivalence

4) Definitions of surjective, injective, and bijective maps.

5) Transfinite induction theorem (with proof).