Sample questions for a written exam

Below are examples of the kind of questions that can appear in the written exam.

1. Define the notion of ordinal in set theory. How can the definition be simplified if we work in ZF, i.e. assuming the regularity axiom?

2. Mention some important consequences of the axiom of constructibility.

3. What does the reflection theorem for cumulative hierarchy say? How can it be used to show that ZF can not be axiomatized by a finite set of formulas?