How the exam looks like?

Exam test : 90 min, need at least 1/2 pts for advancing to the oral part.

Oral exam : apx. 20 min, in the order of handing out the tests.

What will not be it the exam test?

- Hilbert's calculus (neither at oral exam).
- Programs in Prolog (neither at oral exam).
- Resolution method in pred. logic with unification (neither at oral exam).

What will be at oral exam?

(a) Definitions, algorithms or constructions, statements of theorems.

(b) A proof of a (specified) theorem (lemma, proposition).

Remark Here is an example of an exam test.

Which proofs are at oral exam?

- Cantor's theorem, König's lemma.
- Algorithms for 2-SAT and Horn-SAT (correctness).
- Tableau method in prop. logic: syst. tableau (being finished, finiteness).
- Tableau method (cont.): soundness, completeness. Compactness, corollaries.
- Resolution in prop. logic: soundness, completeness. LI-resolution.
- Semantics of pred. logic: theorem on constants, open theories, deduction thm.
- Tableau method in pred. logic: syst. tableau, role of axioms of equality.
- Tableau method (cont.): soundness, can. model (with equality), completeness.
- Löwenheim-Skolem theorem. Compactness theorem and corollaries.
- Extensions by definitions, Skolem's theorem, Herbrand's theorem.
- Resolution in pred. logic: grounding.
- Elementary equivalence, isomorphism and semantics, ω-categoricity.