I Testing - Introduction

⊃ **What are the informal and formal views of testing?**

⊃ **What are the two basic techniques for testing? What is the difference between them?**

⊃ **What are the different testing phases?**

⊃ **What is unit testing?**
  - **What techniques are appropriate?**
  - **What additional structures do you need?**
  - **Why do you need them and what do they do?**
  - **What are the basic testing strategies?**

⊃ **What is integration testing?**
  - **What are the goals**
  - **What techniques are appropriate?**

II Testing - Introduction

⮥ **What is system testing?**

↳ **What techniques are appropriate?**
↳ **What issues to you need to address?**
↳ **Who does it?**
↳ **What are the various forms of system testing?**

⮥ **What is stress testing?**

↳ **What are the goals and reasons for stress testing?**
↳ **What is likely to happen if you don't stress test?**

⮥ **What is regression testing?**

↳ **Why is it done?**
↳ **When do you do it?**

III Adequate Testing

⮡ **What is the common wisdom associated with OO programming?**
- ↳ **What is the flaw in it?**
- ↳ **What are the languages features that pose difficulties?**

⮡ **What is meant by adequate testing? What are the criteria?**

⮡ **What are the axioms? Why are they important? Of all the axioms which are important for this paper and why?**

⮡ **Encapsulation: used in the OO sense is partly like abstraction.**
- ↳ **What are the problems?**
- ↳ **Which axioms are applicable here?**
- ↳ **Why is it important?**
- ↳ **What are the main issues?**

IV Adequate Testing

⮑ **Overriding of Methods**
  ↬ What are the problems?
  ↬ Which axioms are applicable here?
  ↬ Why is it important?
  ↬ What are the main issues?

⮑ **Multiple Inheritance**
  ↬ What are the problems?
  ↬ Which axioms are applicable here?
  ↬ Why is it important?
  ↬ What are the main issues?

⮑ **What arethe main lessons of the paper?**

V Testing - Coverage

Focus primarily on sections 1, 2, and 4

➲ **What is test coverage?**
  ↳ **Are they quantitative or qualitative measures?**
  ↳ **Why is it important?**
  ↳ **When is it useful?**
  ↳ **Why is it useful?**
  ↳ **What are its strengths? Weaknesses?**

➲ **What are the various granularities of coverage?**
  ↳ **What are coverage criteria?**

➲ **General thought questions:**
  ↳ **What are the trade-offs to be made with respect to test coverage?**
  ↳ **Testing in general?**