Software Engineering Final Exam.   ID: Name

1. Describe the definition of software architecture. Why is architecture important? (10%)
2. What is architectural style? List 5 architectural styles. (8%)
3. Describe the definition of cohesion of a module, then describe the levels of cohesion. (7%)
4. List typical design errors of interface design, (5%)
5. List kind of design patterns. (5%)
6. Describe the WebE design pyramid. (5%)
7. Describe the major tasks of quality assurance, quality planning, and quality control of software. (5%)
8. List McCall's quality factors. (5%)
9. Describe the process of formal technique review, (5%)
10. Describe roles of SQA group. (5%)
11. Describe the difference between software verification and software validation. What is regression testing? (5%)
12. Describe basis path testing technique.   Can it find all errors of a module?(5%)
13. Describe the difference of white-box testing and black-box testing. (5%)
14. Describe the testing process of WebApp. (5%)
15. What factors should be consider when selecting a software project team structure? (5%)
16. Describe content of software product scope? (5%)