

ITMD: 511 Application Development Methodologies

Chapter 19: Systems Engineering

Exercises

1. Give two examples of government functions that are supported by complex sociotechnical systems and explain why, in the foreseeable future, these functions cannot be completely automated.
2. Explain briefly why the involvement of a range of professional disciplines is essential in systems engineering.
3. Complex sociotechnical systems lead to three important characteristics. What are they? Explain each in brief
4. Why is system integration a particularly critical part of the systems development process? Suggest three sociotechnical issues that may cause difficulties in the system integration process.
5. Why is system evolution inherently costly?

References