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TQ – C1

**True / False**

**Q:** Object-oriented analysis is the process of understanding a problem and the requirements of the solution, while object-oriented design is the process of describing a solution to the problem.

**A:** True

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**Multiple Choice**

**Q:** Which of these is not an immediate benefit of a highly cohesive module?

1. Easy to reuse in other software projects
2. Less likely to be affected by change
3. More likely to be more efficient
4. Much easier to maintain

**A:** C

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**Fill in the Blank**

**Q:** A(n) \_ is a specification for a group of values and the operations of those values. A(n) \_ is an implementation of a(n) \_ within a programming language.

**A:** abstract data type, data structure, ADT

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**Short Answer**

**Q:** Should modules be loosely coupled or highly coupled?

**A:** It depends. While loose coupling has several benefits (such as being more adaptable to change, easier to understand, increased reusability of code, and increased cohesion), some coupling is always required, and some designs work better with high coupling based on the requirements of and factors affecting the design.

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