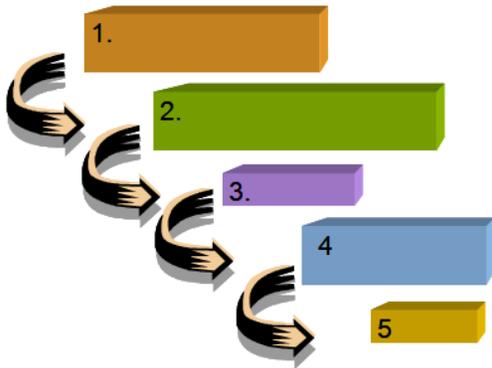


Associate Software Developer Certification - Sample Exam Questions

1. Your software design appears to be inaccurate. This particular problem may originate from problems in Requirements Engineering. What is the most probable requirements fault that may cause this error?
 - a. ambiguous requirements
 - b. incomplete requirements**
 - c. minimal specification
 - d. infeasible requirements
2. Organize the Weinberg's Steps of Eliciting/Analyzing Requirements.



- a. 1. problem recognition**
2. evaluation and synthesis
3. modeling
4. specification
5. review
- b. 1. evaluation and synthesis
2. problem recognition
3. specification
4. modeling
5. review
- c. 1. evaluation and synthesis
2. problem recognition
3. modeling
4. specification
5. review
- d. 1. problem recognition
2. evaluation and synthesis
3. specification
4. modeling
5. review

3. Formal methods for the analysis and specification of requirements in software:
 - a. are extensively used in practice
 - b. are easily understood by project stakeholders and end-users
 - c. can be easily scaled up to very large systems
 - d. are appropriate for specifying medical software systems

4. A pattern is a coding language specific to a problem:
 - a. True
 - b. False

5. Software Design is concerned with which of the following:
 - a. Identifying and describing the operational needs of the system
 - b. Performing a validation of how well the system performs
 - c. Writing system requirements in a form that may be implemented
 - d. Describing how the system is to perform its tasks

6. Concurrency is:
 - a. a middleware tool
 - b. a property of software systems
 - c. a bug, flaw or failure in a computer program
 - d. a commonly used database query language

7. Verification is:
 - a. Usually performed by a dedicated tool
 - b. The process of checking that software fulfills its intended purpose
 - c. A requirements concern
 - d. Always performed by quality assurance personnel

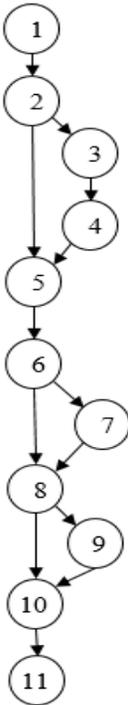
8. Static analysis does not promote software quality:
 - a. True
 - b. False

9. Library loading for a software program occurs during the program compilation:
 - a. True
 - b. False

10. Given the following predicate (NOT A) AND (B OR C), which of the following test suites satisfies Decision/Condition coverage?
 - a. 1. A=true, B=false, C=true 2. A=false, B=false, C=false
 - b. 1. A=true, B=true, C=false 2. A=false, B=false, C=false
 - c. 1. A=true, B=true, C=true 2. A=false, B=false, C=false

d. 1. A=true, B=false, C=true 2. A=false, B=true, C=false

11. What is the cyclomatic complexity of this control flow graph?



- a. 3
- b. 7
- c. 2
- d. 4

12. Given the following predicate A AND (B OR (NOT C)), which of the following test suites satisfies MC/DC coverage?

- a. 1. A=true, B=false, C=true
2. A=false, B=false, C=false
3. A=false, B=true, C=true
- b. 1. A=false, B=false, C=false
2. A=true, B=false, C=false
3. A=true, B=false, C=true
4. A=true, B=true, C=true
- c. 1. A=false, B=false, C=false
2. A=true, B=false, C=false
3. A=true, B=false, C=true
- d. 1. A=false, B=false, C=false
2. A=true, B=true, C=false
3. A=true, B=false, C=true
4. A=true, B=true, C=true