

## Module 129: Software Engineering - Design Phase

1. What is the primary focus of requirements analysis in software engineering?

- A) Identifying the internal structure of the software system.
- B) Developing a solution to the problem.
- C) Creating a plan for the construction of the proposed system.
- D) Deciding what a software system is to do.
- **Correct Answer: D**

2. What is the main outcome of the design phase in software engineering?

- A) Construction of the proposed system.
- B) Detailed description of the software system's structure.
- C) Confirmation of software requirements.
- D) Implementation of programs.
- **Correct Answer: B**

3. According to the paragraph, what is a flawed perspective on requirements analysis and design?

- A) Design is about developing a solution.
- B) Requirements analysis involves deciding how.
- C) How is only considered during requirements analysis.
- D) What is only considered during design.
- **Correct Answer: D**

4. If the analogy to constructing an office building is considered, what would the design stage involve?

- A) Writing detailed structural plans.
- B) Developing data files and databases.
- C) Identifying the problem to be solved.
- D) Confirming software requirements.
- **Correct Answer: A**

5. What is established during the design stage of software engineering?

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- A) Detailed structural plans.
- B) Collection of blueprints.
- C) Actual building construction.
- D) Software system's internal structure.
- **Correct Answer: D**

## Module 130: Software Engineering - Implementation Phase

### 6. What is the main task of a software analyst in the implementation phase?

- A) Writing programs.
- B) Developing databases.
- C) Requirements analysis.
- D) Design and validation.
- **Correct Answer: C**

### 7. What is the distinction between a software analyst and a programmer?

- A) Programmer focuses on requirements analysis.
- B) Software analyst writes programs.
- C) Software analyst is involved in the entire development process.
- D) Programmer is responsible for design.
- **Correct Answer: C**

### 8. In the narrowest interpretation, what is a programmer charged with during the implementation step?

- A) Writing programs based on requirements analysis.
- B) Designing the software system.
- C) Developing databases.
- D) Confirming software requirements.
- **Correct Answer: A**

### 9. What is a potential challenge in terminology within the computing community?

- A) Blurring of distinctions between programmers and software analysts.

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- B) Central authority in software development.
- C) Strict adherence to the waterfall model.
- D) Limited functionality in the implementation phase.
- **Correct Answer: A**

10. **According to the paragraph, what is often intermingled in the software development process?**

- A) Implementation and testing.
- B) Requirements analysis and design.
- C) Debugging and programming.
- D) Waterfall model and iterative model.
- **Correct Answer: B**

## Module 131: Software Engineering - Testing Phase

11. **In the traditional development phase, what was testing essentially equated with?**

- A) Debugging programs.
- B) Developing databases.
- C) Confirming software requirements.
- D) Constructing the software system.
- **Correct Answer: A**

12. **How is testing viewed in the modern approach to software development?**

- A) As a separate step in software development.
- B) As a confirmation of software requirements.
- C) As part of quality assurance incorporated into other steps.
- D) As a narrow process focused on final product compatibility.
- **Correct Answer: C**

13. **What is one of the goals of software engineering mentioned in the paragraph?**

- A) Confirming software requirements.
- B) Producing error-free software systems.
- C) Incorporating testing as a separate step.

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- D) Equating testing with debugging.
- **Correct Answer: B**

14. **What does the fact that large software systems continue to contain errors indicate?**

- A) Success of modern quality assurance techniques.
- B) Lack of research in software engineering.
- C) Presence of undetected errors for the life of the system.
- D) Compatibility of software with requirements specification.
- **Correct Answer: C**

15. **What does the paragraph suggest about testing in the software development process?**

- A) It is a separate step in software development.
- B) It is only concerned with debugging.
- C) It is a three-step development process.
- D) It is incorporated into other steps.
- **Correct Answer: D**

## Module 132: Software Engineering - Software Engineering Methodologies (I)

16. **What was the belief in early approaches to software engineering regarding requirements analysis, design, and implementation?**

- A) Sequential and risk-averse.
- B) Iterative and flexible.
- C) Incremental and rapid.
- D) Waterfall model and open-source.
- **Correct Answer: A**

17. **What is the incremental model for software development characterized by?**

- A) Strict adherence to the waterfall model.
- B) Refining each version of the software.

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- C) Rapid prototyping and throwaway prototyping.
- D) Developing software in increments with limited functionality.
- **Correct Answer: D**

18. **What is the iterative model similar to, but distinct from, according to the paragraph?**

- A) Open-source development.
- B) Incremental model.
- C) Waterfall model.
- D) Extreme programming.
- **Correct Answer: B**

19. **What is an example of an iterative technique mentioned in the paragraph?**

- A) Waterfall model.
- B) Open-source development.
- C) Rational Unified Process (RUP).
- D) Incremental model.
- **Correct Answer: C**

20. **What is the significant example of iterative techniques mentioned in the paragraph?**

- A) Open-source development.
- B) Unified process.
- C) Extreme programming (XP).
- D) Waterfall model.
- **Correct Answer: C**

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