

Software architect

 Test duration: **45 minutes**

 Difficulty level: **Moderate**



1. What is a core responsibility of a software architect?

- A) Writing unit tests
- B) Overseeing system structure and tech choices
- C) Managing daily tasks
- D) Debugging code

Correct answer: B) Overseeing system structure and tech choices

2. What's crucial when selecting a tech stack?

- A) Team familiarity
- B) Alignment with project needs
- C) Lowest cost
- D) Speed of setup

Correct answer: B) Alignment with project needs

3. Why use microservices?

- A) Easier UI design
- B) Independent service deployment
- C) Fewer languages to learn
- D) Reduced hardware needs

Correct answer: B) Independent service deployment

4. What does scalability mean?

- A) Faster coding
- B) Handling growth efficiently
- C) Easier deployment
- D) User happiness

Correct answer: B) Handling growth efficiently

5. Which is key in object-oriented design?

- A) Encapsulation
- B) Global variables
- C) Procedural flow
- D) No classes

Correct answer: A) Encapsulation

6. For high availability, what's vital?

- A) Redundancy
- B) Single server
- C) Reduced costs
- D) Fewer databases

Correct answer: A) Redundancy

7. When is NoSQL ideal?

- A) Structured data
- B) Flexible schema
- C) SQL experience
- D) Small budget

Correct answer: B) Flexible schema

8. Why use design patterns?

- A) Less testing
- B) Proven solutions
- C) More code
- D) No documentation

Correct answer: B) Proven solutions

9. Which is the best approach to optimize a web app?

- A) Add features
- B) Profile and optimize
- C) Reduce servers
- D) Skip caching

Correct answer: B) Profile and optimize

10. What is the role of CI in development?

- A) Test integration
- B) Code deployment
- C) Project tracking
- D) Code access

Correct answer: A) Test integration