



Architecture-3300  
8 Questions

NAME : \_\_\_\_\_

CLASS : \_\_\_\_\_

DATE : \_\_\_\_\_

1.

# Architecture Quiz

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2. Which of the following are ideal characteristics of an architectural design [select all that apply]

- |  |   |
|--|---|
| <input type="checkbox"/> A Low Cohesion  | <input type="checkbox"/> B Scalability  |
| <input type="checkbox"/> C High Coupling | <input type="checkbox"/> D Low Coupling |

3. Which of the following statements is true?

- |   |   |
|---|---|
| <input type="checkbox"/> The best way to improve a degraded architecture is to keep fixing the code | <input type="checkbox"/> Architectural erosion is less problematic than architectural drift |
|---|---|

?

3. Which of the following statements is true?

- |  |  |
|--|--|
| <p><input type="checkbox"/> A The best way to improve a degraded architecture, is to keep fixing the code until the system starts looking and behaving as expected</p> | <p><input type="checkbox"/> B Architectural erosion is less problematic than architectural drift.</p>            |
| <p><input type="checkbox"/> C Architectural drift results in unnecessarily complex architectures.</p>  | <p><input type="checkbox"/> D Prescriptive architecture and descriptive architecture are typically the same.</p> |

4. Which architectural style is best suited for developing a professional networking platform, like LinkedIn, consisting of a GUI layer, a business logic layer, and a data storage layer, with each layer operating on separate processors?

- |  |  |
|--|--|
| <p><input type="checkbox"/> A N-tier Architecture</p>        | <p><input type="checkbox"/> B Microservices architecture</p> |
| <p><input type="checkbox"/> C Client-Server Architecture</p> | <p><input type="checkbox"/> D Layered Architecture</p>       |

5. Which architectural style is appropriate for developing an email service such as Outlook, where multiple clients can send, receive, and synchronize emails through a centralized server?

- |   |  |
|---|--|
| <p><input type="checkbox"/> A Client-Server</p> | <p><input type="checkbox"/> B Layered</p>      |
| <p><input type="checkbox"/> C 3-Tier</p>        | <p><input type="checkbox"/> D Event-Driven</p> |

6. What architectural style is suitable for developing a video streaming platform like Netflix, where various independent services handle distinct functionalities such as content recommendation, user authentication, and video streaming, enabling enhanced scalability and easier feature updates?

- |  |   |
|--|---|
| <p><input type="checkbox"/> A 2-Tier</p> | <p><input type="checkbox"/> B Client-Server</p> |
| <p><input type="checkbox"/> C</p>        | <p><input type="checkbox"/> D Microservices</p> |



Which architecture style can be best described via this illustration?

A  
7.

2 Tier

C



Which architecture style can be best described via this illustration?

B

Client-Server

D

Microservices

A

Pipe and Filter

B

Layered

C

EDA

D

Peer-to-Peer

8. Which architectural style is fitting for developing a real-time analytics system, where the components react to and process incoming events and data streams, enabling immediate insights and responsive actions?

A

Layered

B

Microservices

C

N-tier

D

EDA

### Answer Key

1.

2. b, d

3. c

4. a

5. a

6. d

7. d

8. d