1. **What are some examples of middleware technologies commonly used in system integration?**

- Batch File Transfer  
Database Gateway  
ODBC  
OLAP  
Data Transformation

1. **How does XML contribute to system integration?**
2. **What are the fundamental activities involved in a software development process?  
   How are databases typically treated in Presentation Integration models?**
3. **What is ACID stand for?**

-atomicity, consistency, isolation, and durability

1. **How does the data integration model typically access the databases or data structures of an application?**

The data integration model typically accesses the databases or data structures directly within an application.

1. **Compare 3 different integration models - presentation, data and functional integration in terms of impact on legacy systems?**

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1. **How many types of types synchronous communication? What are they?**

-Remote Procedure Calls (RPC)

SOAP (Simple Object Access Protocol)

WebSockets

Message Queuing

RESTful APIs

1. **What are some examples of tools and middleware used in the data integration model?**
2. **At what level does the functional integration model operate?**
3. **What is one of disadvantages of shared database integration?**

- Not-so-standard SQL

1. **What factors influence the decision to use the Functional Model for integration?**
2. **What is one of criteria used for user authentication?**

-Login through username, password, PIN, or answers to security questions

1. **What is an example of a conflict in policies regarding data access?**

-Users with different roles accessing data they should not have access to.

1. **What is the purpose of a Message Queue in a messaging system?**
2. **What are two type of access control?**

- Mandatory access control; Role-based access control

1. **How many kinds of the main styles of integration systems? What are they?**

-File Transfer ; Shared Database ; Remote Procedure Invocation ; Messaging

1. **What is a naming service?**

-Software that convert a name into a physical address

1. **What is the integration model?**

**-In integration we aim to reuse as much as possible and integration model gives directions for it**

1. **What are the requirements of system integration?**

-Interconnectivity ; Interoperability ; Sematic consistence and Convergent Integration

1. **What is the purpose of a software process model?**

-A software process model provides an abstract representation of the software development process from a specific perspective, aiding in planning, executing, and managing software projects.

1. **What are some examples of Presentation Integration models?**
2. **How does the data integration model impact legacy applications?**
3. **What does “Coupling” mean for system integration**

**-Coupling defines the degree of integration**

- Coupling is tightly coupled applications have known and unknown assumptions ;

Applications can evolve independently without problems

1. **How do you choose the best SDLC model for your project?**
2. **What should take place first authentication or authorization?**

**-Authentication**

1. **What is the difference between authorization and access control?**

**-Access control decision rules are based on a pre-existing assumption of authentication trust.Authorization : The determination of access to resource(s).**