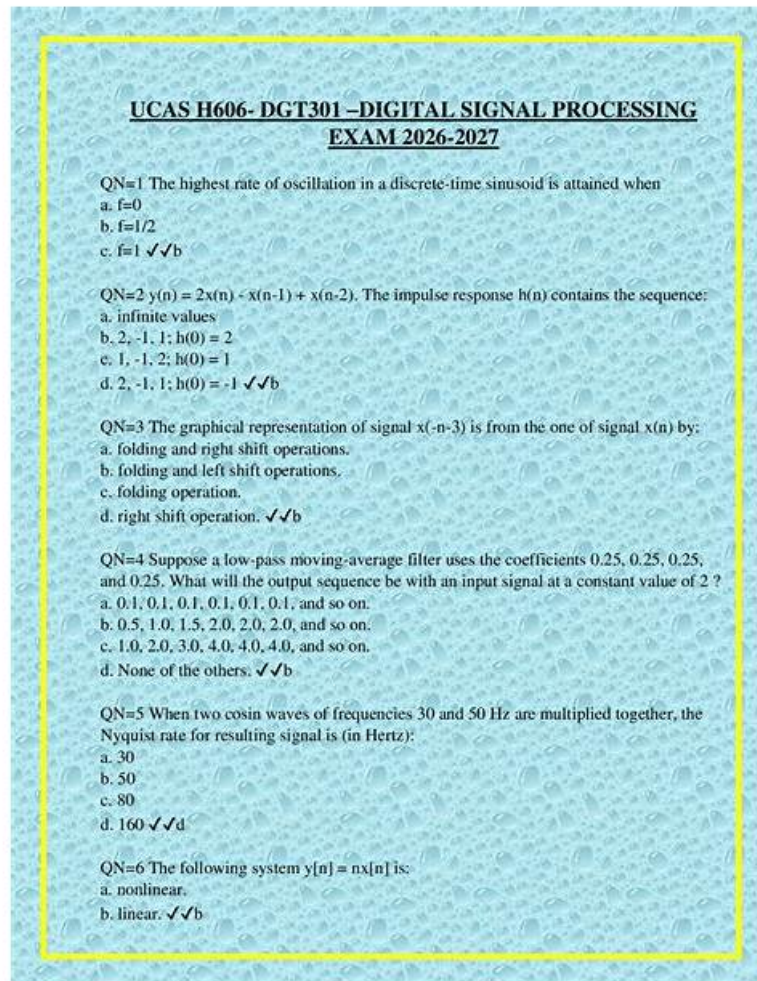


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## Appian Certified Lead Developer Sample Questions (Q18-Q23):

### NEW QUESTION # 18

You are reviewing the Engine Performance Logs in Production for a single application that has been live for six months. This application experiences concurrent user activity and has a fairly sustained load during business hours. The client has reported performance issues with the application during business hours. During your investigation, you notice a high Work Queue - Java Work Queue Size value in the logs. You also notice unattended process activities, including timer events and sending notification emails, are taking far longer to execute than normal. The client increased the number of CPU cores prior to the application going live. What is the next recommendation?

- **A. Add more engine replicas.**
- B. Add more application servers.
- C. Add execution and analytics shards
- D. Optimize slow-performing user interfaces.

**Answer: A**

Explanation:

As an Appian Lead Developer, analyzing Engine Performance Logs to address performance issues in a Production application requires understanding Appian's architecture and the specific metrics described. The scenario indicates a high "Work Queue - Java Work Queue Size," which reflects a backlog of tasks in the Java Work Queue (managed by Appian engines), and delays in unattended process activities (e.g., timer events, email notifications). These symptoms suggest the Appian engines are overloaded, despite the client increasing CPU cores. Let's evaluate each option:

A . Add more engine replicas: This is the correct recommendation. In Appian, engine replicas (part of the Appian Engine cluster) handle process execution, including unattended tasks like timers and notifications. A high Java Work Queue Size indicates the engines are overwhelmed by concurrent activity during business hours, causing delays. Adding more engine replicas distributes the workload, reducing queue size and improving performance for both user-driven and unattended tasks. Appian's documentation recommends scaling engine replicas to handle sustained loads, especially in Production with high concurrency. Since CPU cores were already increased (likely on application servers), the bottleneck is likely the engine capacity, not the servers.

B . Optimize slow-performing user interfaces: While optimizing user interfaces (e.g., SAIL forms, reports) can improve user experience, the scenario highlights delays in unattended activities (timers, emails), not UI performance. The Java Work Queue Size issue points to engine-level processing, not UI rendering, so this doesn't address the root cause. Appian's performance tuning guidelines prioritize engine scaling for queue-related issues, making this a secondary concern.

C . Add more application servers: Application servers handle web traffic (e.g., SAIL interfaces, API calls), not process execution or unattended tasks managed by engines. Increasing application servers would help with UI concurrency but wouldn't reduce the Java Work Queue Size or speed up timer/email processing, as these are engine responsibilities. Since the client already increased CPU cores (likely on application servers), this is redundant and unrelated to the issue.

D . Add execution and analytics shards: Execution shards (for process data) and analytics shards (for reporting) are part of Appian's data fabric for scalability, but they don't directly address engine workload or Java Work Queue Size. Shards optimize data storage and query performance, not real-time process execution. The logs indicate an engine bottleneck, not a data storage issue, so this isn't relevant. Appian's documentation confirms shards are for long-term scaling, not immediate performance fixes.

Conclusion: Adding more engine replicas (A) is the next recommendation. It directly resolves the high Java Work Queue Size and delays in unattended tasks, aligning with Appian's architecture for handling concurrent loads in Production. This requires collaboration with system administrators to configure additional replicas in the Appian cluster.

Appian Documentation: "Engine Performance Monitoring" (Java Work Queue and Scaling Replicas).

Appian Lead Developer Certification: Performance Optimization Module (Engine Scaling Strategies).

Appian Best Practices: "Managing Production Performance" (Work Queue Analysis).

### NEW QUESTION # 19

For each requirement, match the most appropriate approach to creating or utilizing plug-ins. Each approach will be used once.

Note: To change your responses, you may deselect your response by clicking the blank space at the top of the selection list.

**Answer:**

Explanation:

### NEW QUESTION # 20

You are in a backlog refinement meeting with the development team and the product owner. You review a story for an integration

involving a third-party system. A payload will be sent from the Appian system through the integration to the third-party system. The story is 21 points on a Fibonacci scale and requires development from your Appian team as well as technical resources from the third-party system. This item is crucial to your project's success. What are the two recommended steps to ensure this story can be developed effectively?

- A. Acquire testing steps from QA resources.
- B. Identify subject matter experts (SMEs) to perform user acceptance testing (UAT).
- C. Maintain a communication schedule with the third-party resources.
- D. Break down the item into smaller stories.

**Answer: C,D**

Explanation:

Comprehensive and Detailed In-Depth Explanation:

This question involves a complex integration story rated at 21 points on the Fibonacci scale, indicating significant complexity and effort. Appian Lead Developer best practices emphasize effective collaboration, risk mitigation, and manageable development scopes for such scenarios. The two most critical steps are:

Option C (Maintain a communication schedule with the third-party resources):

Integrations with third-party systems require close coordination, as Appian developers depend on external teams for endpoint specifications, payload formats, authentication details, and testing support. Establishing a regular communication schedule ensures alignment on requirements, timelines, and issue resolution. Appian's Integration Best Practices documentation highlights the importance of proactive communication with external stakeholders to prevent delays and misunderstandings, especially for critical project components.

Option D (Break down the item into smaller stories):

A 21-point story is considered large by Agile standards (Fibonacci scale typically flags anything above 13 as complex). Appian's Agile Development Guide recommends decomposing large stories into smaller, independently deliverable pieces to reduce risk, improve testability, and enable iterative progress. For example, the integration could be split into tasks like designing the payload structure, building the integration object, and testing the connection—each manageable within a sprint. This approach aligns with the principle of delivering value incrementally while maintaining quality.

Option A (Acquire testing steps from QA resources): While QA involvement is valuable, this step is more relevant during the testing phase rather than backlog refinement or development preparation. It's not a primary step for ensuring effective development of the story.

Option B (Identify SMEs for UAT): User acceptance testing occurs after development, during the validation phase. Identifying SMEs is important but not a key step in ensuring the story is developed effectively during the refinement and coding stages.

By choosing C and D, you address both the external dependency (third-party coordination) and internal complexity (story size), ensuring a smoother development process for this critical integration.

## NEW QUESTION # 21

A customer wants to integrate a CSV file once a day into their Appian application, sent every night at 1:00 AM. The file contains hundreds of thousands of items to be used daily by users as soon as their workday starts at 8:00 AM. Considering the high volume of data to manipulate and the nature of the operation, what is the best technical option to process the requirement?

- A. Create a set of stored procedures to handle the volume and the complexity of the expectations, and call it after each integration.
- B. Use an Appian Process Model, initiated after every integration, to loop on each item and update it to the business requirements.
- C. Process what can be completed easily in a process model after each integration, and complete the most complex tasks using a set of stored procedures.
- D. Build a complex and optimized view (relevant indices, efficient joins, etc.), and use it every time a user needs to use the data.

**Answer: A**

Explanation:

Comprehensive and Detailed In-Depth Explanation:

As an Appian Lead Developer, handling a daily CSV integration with hundreds of thousands of items requires a solution that balances performance, scalability, and Appian's architectural strengths. The timing (1:00 AM integration, 8:00 AM availability) and data volume necessitate efficient processing and minimal runtime overhead. Let's evaluate each option based on Appian's official documentation and best practices:

A. Use an Appian Process Model, initiated after every integration, to loop on each item and update it to the business requirements:

This approach involves parsing the CSV in a process model and using a looping mechanism (e.g., a subprocess or script task with `forEach`) to process each item. While Appian process models are excellent for orchestrating workflows, they are not optimized for high-volume data processing. Looping over hundreds of thousands of records would strain the process engine, leading to timeouts, memory issues, or slow execution-potentially missing the 8:00 AM deadline. Appian's documentation warns against using process models for bulk data operations, recommending database-level processing instead. This is not a viable solution.

B . Build a complex and optimized view (relevant indices, efficient joins, etc.), and use it every time a user needs to use the data: This suggests loading the CSV into a table and creating an optimized database view (e.g., with indices and joins) for user queries via `queryEntity`. While this improves read performance for users at 8:00 AM, it doesn't address the integration process itself. The question focuses on processing the CSV ("manipulate" and "operation"), not just querying. Building a view assumes the data is already loaded and transformed, leaving the heavy lifting of integration unaddressed. This option is incomplete and misaligned with the requirement's focus on processing efficiency.

C . Create a set of stored procedures to handle the volume and the complexity of the expectations, and call it after each integration: This is the best choice. Stored procedures, executed in the database, are designed for high-volume data manipulation (e.g., parsing CSV, transforming data, and applying business logic). In this scenario, you can configure an Appian process model to trigger at 1:00 AM (using a timer event) after the CSV is received (e.g., via FTP or Appian's File System utilities), then call a stored procedure via the "Execute Stored Procedure" smart service. The stored procedure can efficiently bulk-load the CSV (e.g., using SQL's BULK INSERT or equivalent), process the data, and update tables-all within the database's optimized environment. This ensures completion by 8:00 AM and aligns with Appian's recommendation to offload complex, large-scale data operations to the database layer, maintaining Appian as the orchestration layer.

D . Process what can be completed easily in a process model after each integration, and complete the most complex tasks using a set of stored procedures:

This hybrid approach splits the workload: simple tasks (e.g., validation) in a process model, and complex tasks (e.g., transformations) in stored procedures. While this leverages Appian's strengths (orchestration) and database efficiency, it adds unnecessary complexity. Managing two layers of processing increases maintenance overhead and risks partial failures (e.g., process model timeouts before stored procedures run). Appian's best practices favor a single, cohesive approach for bulk data integration, making this less efficient than a pure stored procedure solution (C).

Conclusion: Creating a set of stored procedures (C) is the best option. It leverages the database's native capabilities to handle the high volume and complexity of the CSV integration, ensuring fast, reliable processing between 1:00 AM and 8:00 AM. Appian orchestrates the trigger and integration (e.g., via a process model), while the stored procedure performs the heavy lifting-aligning with Appian's performance guidelines for large-scale data operations.

Appian Documentation: "Execute Stored Procedure Smart Service" (Process Modeling > Smart Services).

Appian Lead Developer Certification: Data Integration Module (Handling Large Data Volumes).

Appian Best Practices: "Performance Considerations for Data Integration" (Database vs. Process Model Processing).

## NEW QUESTION # 22

For each scenario outlined, match the best tool to use to meet expectations. Each tool will be used once Note: To change your responses, you may deselected your response by clicking the blank space at the top of the selection list.

**Answer:**

Explanation:

## NEW QUESTION # 23

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