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NVIDIA-Certified Professional: Agentic AI (NCP-AAI)

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Question: 1

When designing tool integration for an agent that needs to perform mathematical calculations, web searches, and API calls, which architecture pattern provides the most scalable and maintainable approach?

- A. External tool services with manual configuration for each agent instance
- B. Microservice-based tool architecture with standardized interfaces
- C. Monolithic tool handler with conditional logic for different tool types
- D. Embedded tool functions within the main agent code

Answer: B

Question: 2

A company is deploying an AI-powered customer support agent that integrates external APIs and handles a wide range of customer inputs dynamically.

Which of the following strategies are appropriate when designing an AI agent for dynamic conversation management and external system interaction? (Choose two.)

- A. Integrating a feedback loop from user interactions to iteratively improve agent behavior.
- B. Using rule-based logic as the primary framework to maintain consistency in agent decisions.
- C. Implementing retry logic for API failures to ensure robustness in external communications.
- D. Preferring hardcoded responses for frequent queries to deliver reliable and low-latency answers.

Answer: AC

Question: 3

In the context of agent development, how does an autonomous agent differ from a predefined workflow when applied to complex enterprise tasks?

- A. Agents optimize for execution speed under fixed input-output mappings, while workflows prioritize goal alignment through adaptive reasoning and memory mechanisms.
- B. Workflows provide deterministic task sequencing with conditional branching, while agents adapt decisions dynamically based on goals, context, and environment feedback.
- C. Workflows emphasize parallelism and distributed coordination of processes, while agents emphasize serialization and isolated problem solving.

Answer: B

Question: 4

A Lead AI Architect at a global financial institution is designing a multi-agent fraud detection system using an agentic AI framework. The system must operate in real time, with distinct agents working collaboratively to monitor and analyze transactional patterns across accounts, retain and share contextual information over time, and escalate suspicious behaviors to a human fraud analyst when needed. Which architectural approach enables intelligent specialization, shared memory, and inter-agent coordination in a dynamic and evolving threat environment?

- A. Design a modular multi-agent system where individual agents collaborate asynchronously using shared memory and structured messaging.
- B. Design a multi-agent system where individual agents collaborate synchronously using shared memory and structured messaging.
- C. Design a centralized rule-based service that checks all transactions against static fraud indicators and sends alerts when thresholds are exceeded.
- D. Design an agentic workflow where each agent acts independently on isolated data slices with no inter-agent communication to reduce latency and model complexity.
- E. Design monolithic LLM-based agents that handle all fraud detection tasks within a single loop, without modular roles or multi-agent coordination.

Answer: A

Question: 5

When designing complex agentic workflows that include both sequential and parallel task execution, which orchestration pattern offers the greatest flexibility?

- A. Graph-based workflow orchestration incorporating conditional branches
- B. Linear pipeline orchestration with a fixed task sequence
- C. Event-driven orchestration that triggers tasks reactively, in series or in parallel

Answer: A

Question: 6

When implementing inter-agent communication for a distributed agentic system running across multiple NVIDIA GPU nodes, which message routing pattern provides the best balance of reliability and performance?

- A. Database-based message queuing with polling
- B. Direct TCP connections between all agent pairs
- C. Event-driven message routing with distributed broker clusters
- D. Centralized message broker with topic-based routing

Answer: C

Question: 7

Which two orchestration methods are MOST suitable for implementing complex agentic workflows that require both external data access and specialized task delegation? (Choose two.)

- A. Agentic orchestration with specialized expert system delegation
- B. Prompt chaining to accomplish state management
- C. Manual workflow coordination without automation
- D. Retrieval-based orchestration for external data
- E. Static rule-based routing with predefined pathways

Answer: AD

Question: 8

When evaluating coordination failures in a multi-agent system managing distributed manufacturing workflows, which analysis approach best identifies state management and planning synchronization issues?

- A. Monitor agent outputs individually to confirm local correctness and examine results of specific workflow steps.
- B. Deploy distributed state tracing across agents, analyze transition timing, study communication overhead, and verify synchronization accuracy.
- C. Assess synchronization methods during design reviews and use simulations to evaluate coordination across representative workflow scenarios.
- D. Track workflow throughput and task completions to measure performance trends and highlight workflow outcomes.

Answer: B

Question: 9

You are designing an AI agent for summarizing medical documents that include images and text as well. It must extract key information and recognize dates. Which feature is most critical for ensuring the agent performs well across multiple input and output formats?

- A. Use of guardrails to filter out hallucinated content
- B. Retry logic implementation to ensure robustness during API failures
- C. Chain-of-thought prompting for reasoning accuracy
- D. Multi-modal model integration to handle both text and vision inputs

Answer: D

Question: 10

Which two coordination patterns are MOST effective for implementing a multi-agent system where agents have different specializations (Research Analyst, Content Writer, Quality Validator)?

- A. Sequential pipeline coordination with crew-based structured handoffs
- B. Peer-to-peer coordination with consensus mechanisms
- C. Random task distribution with load balancing
- D. Hierarchical coordination with crew-based task delegation

Answer: AD

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