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NVIDIA NCP-AAI Exam Syllabus Topics:

Topic	Details
Topic 1	• Deployment and Scaling: Covers operationalizing agentic systems for production use, including containerization, orchestration, and scaling strategies.
Topic 2	• Knowledge Integration and Data Handling: Covers how agents integrate external knowledge sources and manage diverse data types to support informed decision-making.

Topic 3	• Safety, Ethics, and Compliance: Covers the principles and practices needed to ensure agents operate responsibly, ethically, and within legal and regulatory requirements.
Topic 4	• Human-AI Interaction and Oversight: Focuses on designing systems that enable effective human supervision, control, and collaboration with AI agents.
Topic 5	• NVIDIA Platform Implementation: Focuses on leveraging NVIDIA's AI hardware and software stack to build and optimize agentic AI systems.
Topic 6	• Run, Monitor, and Maintain: Addresses the ongoing operation, health monitoring, and routine maintenance of agentic systems after deployment.
Topic 7	• Evaluation and Tuning: Addresses methods for measuring agent performance, running benchmarks, and optimizing agent behavior.
Topic 8	• Agent Architecture and Design: Covers how agentic AI systems are structured, including how agents reason, communicate, and interact within single-agent and multi-agent environments.

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NVIDIA Agentic AI Sample Questions (Q18-Q23):

NEW QUESTION # 18
Your team has built an agent using LangChain and needs to implement guardrails for deployment in a production environment. Which approach represents the MOST effective integration of NVIDIA NeMo Guardrails?

- A. Run the LangChain agent in parallel with NeMo Guardrails, allowing comparison of outputs between systems for comprehensive safety validation and performance optimization.
- B. Rebuild the agent using only NeMo Guardrails, thereby reconstructing the LangChain implementation with enhanced safety controls and production-ready guardrail integration.
- C. Wrap the LangChain agent with NeMo Guardrails configuration while maintaining the existing workflow architecture and preserving current development investments.
- D. Configure input filtering to address safety requirements, integrating guardrail mechanisms focused on data validation and moderation within the current framework.

Answer: C

Explanation:
Option B is the right call because it gives the platform team levers to tune behavior without rewriting the entire agent loop. The selected option specifically B states "Wrap the LangChain agent with NeMo Guardrails configuration while maintaining the existing workflow architecture and preserving current development investments.", which matches the operational requirement rather than a superficial wording match. Wrapping LangChain with NeMo Guardrails preserves the existing agent while adding policy enforcement. Rebuilding the workflow is unnecessary risk. The implementation detail that matters is multi-layer controls that combine semantic checks, topic control, content safety, jailbreak detection, and logged decisions. Within the NVIDIA stack, the guardrail layer should emit enough telemetry to show which policy triggered, which content was blocked or modified, and where the decision occurred. The losing choices mostly optimize for short-term convenience; unlogged guardrail decisions leave compliance teams unable to reconstruct what happened during an incident. That is the difference between an agent that works in a notebook and an agent that remains reliable in production.

NEW QUESTION # 19

You are creating a virtual assistant agent that needs to handle an increasingly wide range of tasks over an extended period.
What is the primary benefit of combining external storage (like RAG) with fine-tuning (embodied memory) in this context?

- A. To ensure the agent doesn't make any errors
- B. To eliminate the need for external knowledge
- C. To accelerate the agent's initial response time
- D. To enhance long-term reasoning capabilities and adaptability

Answer: D

Explanation:
The best answer is Option A when the design is judged by reliability, latency budget, auditability, and maintainability rather than demo simplicity. The selected option specifically A states "To enhance long-term reasoning capabilities and adaptability", which matches the operational requirement rather than a superficial wording match. External storage supplies updatable facts; fine-tuning internalizes stable behavior. Together they improve adaptability without forcing every fact into model weights. Operationally, the design depends on checkpointed state keyed by session or user, with schemas that preserve only the fields the workflow needs later. The stack-level anchor is clear: long-running agents should retrieve compact relevant context instead of replaying the entire conversation history into every call. The losing choices mostly optimize for short-term convenience; unbounded memory creates privacy, relevance, and performance problems unless persistence is deliberate. It also creates clean evidence for audits, incident review, and root-cause analysis when behavior drifts. The memory policy should define what is persisted, what is summarized, and what is discarded to avoid both context loss and prompt bloat.

NEW QUESTION # 20
An engineer has created a working AI agent solution providing helpful services to users. However, during live testing, the AI agent does not perform tasks consistently.
Which two potential solutions might help with this issue? (Choose two.)

- A. Identify where dividing the tasks into subtasks and handling them by multiple agents can help.
- B. Remove schema validations and assertions on tool outputs to avoid inconsistency.
- C. Refine the prompt given to the AI Agent; be clear on objectives
- D. Increase randomness (e.g., temperature) and remove fixed seeds to avoid determinism.

Answer: A,C

Explanation:
Task decomposition and sharper prompts reduce variance at the planning layer. Removing validation or increasing temperature would make inconsistency worse, not better. That matters because a tool boundary where every API has declared inputs, declared outputs, validation, retry behavior, and instrumentation.
Together, C states "Identify where dividing the tasks into subtasks and handling them by multiple agents can help."; D states "Refine the prompt given to the AI Agent; be clear on objectives", so the answer covers both sides of the requirement instead of solving only the model or only the infrastructure layer. the combination of Options C and D fits the operating model because the problem describes an agent that must remain adaptive under changing inputs and infrastructure conditions. The alternatives would look simpler in a prototype, but relying on the model to infer API behavior invites fabricated endpoints, malformed arguments, and brittle production behavior. This lines up with NVIDIA guidance because NVIDIA's agent tooling favors explicit function specifications and observable execution paths instead of free-form API narration in the prompt. The result is a system that can be benchmarked, traced, and revised without destabilizing the whole agent fabric.

NEW QUESTION # 21
You are designing a virtual assistant that helps users check weather updates via external APIs. During testing, the agent frequently calls the incorrect tools, often hallucinating endpoints or returning incorrect formats. You suspect the prompt structure might be the root cause of these failures.
Which prompt design best supports consistent tool invocation in this agent?

- A. Use structured prompt templates with few-shot tool usage examples
- B. Rely on the agent's internal knowledge to infer tool usage
- C. Provide only a generic system instruction with no examples
- D. Include tool names in natural language but without parameter examples

Answer: A

Explanation:
The high-value engineering move is wrappers that convert messy external services into stable functions with bounded latency and predictable failure semantics. At production scale, Option D preserves separability between reasoning, state, tools, and runtime operations. Few-shot tool examples constrain the model's action format. For weather APIs, schema examples prevent fabricated endpoints, missing parameters, and invalid response shapes. For a production build, tool execution should sit behind adapters that can be profiled and regression-tested just like retrieval and inference services. The selected option specifically D states "Use structured prompt templates with few-shot tool usage examples", which matches the operational requirement rather than a superficial wording match. The rejected options are weaker because hardcoded endpoints, loose parsers, or monolithic handlers turn every API change into an application release and hide failures from observability. Anything less would make the agent fragile when traffic, schemas, policies, or user behavior shift. Schema validation, typed return objects, and trace IDs also make post-incident debugging realistic when a third-party dependency changes behavior.

NEW QUESTION # 22
When analyzing throughput bottlenecks in a multi-modal agent processing text, images, and audio, which Triton configuration evaluations identify optimization opportunities? (Choose two.)

- A. Deploy each modality on separate Triton instances, allowing Triton to automatically manage ensemble coordination, shared memory usage, and pipeline integration.
- B. Profile GPU memory allocation patterns across modalities, implement model instance batching strategies, and tune concurrency limits to maximize utilization.
- C. Use a single model instance per GPU, allowing Triton to automatically optimize concurrency, batching, and multi-instance settings for throughput scaling.
- D. Analyze model ensemble pipelines for sequential dependencies, identify parallelization opportunities, and optimize inter-model data transfer using Triton's scheduler.

Answer: B,D

Explanation:
In NVIDIA terms, TensorRT-LLM and NIM reduce inference overhead, but they still need serving-level tuning to avoid queue buildup under concurrency. Triton optimization starts at the ensemble and instance levels: identify serial dependencies, parallelizable stages, memory contention, and batch/concurrency settings.
The architecture implied by the combination of Options A and B is the one that survives real workloads:
separate responsibilities, explicit contracts, and measurable runtime behavior. Together, A states "Analyze model ensemble pipelines for sequential dependencies, identify parallelization opportunities, and optimize inter-model data transfer using Triton's scheduler."; B states "Profile GPU memory allocation patterns across modalities, implement model instance batching strategies, and tune concurrency limits to maximize utilization.", so the answer covers both sides of the requirement instead of solving only the model or only the infrastructure layer. The practical pattern is matching model precision, batch windows, model instances, and GPU memory behavior to the latency service-level objective. The losing choices mostly optimize for short- term convenience; hardware upgrades alone do not fix poor batching, serial ensembles, guardrail overhead, or KV-cache pressure. This is exactly where NVIDIA's stack is strongest: separating acceleration, orchestration, policy, and observability.

NEW QUESTION # 23
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