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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	• Evaluation and Tuning: Addresses methods for measuring agent performance, running benchmarks, and optimizing agent behavior.
Topic 3	• Cognition, Planning, and Memory: Explores the reasoning strategies, decision-making processes, and memory management techniques that drive intelligent agent behavior.
Topic 4	• Human-AI Interaction and Oversight: Focuses on designing systems that enable effective human supervision, control, and collaboration with AI agents.
Topic 5	• Knowledge Integration and Data Handling: Covers how agents integrate external knowledge sources and manage diverse data types to support informed decision-making.

Topic 6	• Agent Development: Focuses on the practical building, integration, and enhancement of agents using tools, frameworks, and APIs.
Topic 7	• Run, Monitor, and Maintain: Addresses the ongoing operation, health monitoring, and routine maintenance of agentic systems after deployment.
Topic 8	• Safety, Ethics, and Compliance: Covers the principles and practices needed to ensure agents operate responsibly, ethically, and within legal and regulatory requirements.

NVIDIA Agentic AI Sample Questions (Q96-Q101):

NEW QUESTION # 96
When evaluating GPU utilization inefficiencies in deploying Llama Nemotron models across A100 and H100 clusters, which approaches help identify optimal resource allocation strategies? (Choose two.)

- A. Assess concurrent execution capabilities by employing multi-instance GPU partitioning for varying workload types.
- B. Allocate all agents to Hl00 GPUs, allowing resource profiles to automatically adjust for model size and computational requirements.
- C. Profile resource utilization for each Nemotron variant and match models to appropriate GPU tiers.
- D. Allow Nemotron variants to profile actual workload characteristics and allocate resources based on observed demands.

Answer: A,C

Explanation:
The decisive point is failure isolation: the combination of Options B and D keeps the agent's decision path observable instead of burying behavior inside one prompt or one service. Together, B states "Profile resource utilization for each Nemotron variant and match models to appropriate GPU tiers."; D states "Assess concurrent execution capabilities by employing multi-instance GPU partitioning for varying workload types.", so the answer covers both sides of the requirement instead of solving only the model or only the infrastructure layer. Profiling each Nemotron variant and using MIG/concurrent execution where appropriate gives resource fit. Sending every workload to H100s wastes premium capacity. The runtime should therefore be built around matching model precision, batch windows, model instances, and GPU memory behavior to the latency service- level objective. The stack-level anchor is clear: TensorRT-LLM and NIM reduce inference overhead, but they still need serving-level tuning to avoid queue buildup under concurrency. 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. The answer is therefore about engineered control planes, not simply model capability.

NEW QUESTION # 97
When evaluating a customer service agent's resilience to API failures and network issues, which analysis methods effectively identify weaknesses in error handling and retry mechanisms? (Choose two.)

- A. Analyze retry logic for exponential backoff patterns, retry limits, and circuit breaker integration to prevent cascading failures in distributed systems.
- B. Implement retry mechanisms that standardize recovery attempts across scenarios, emphasizing consistency in handling errors.
- C. Use fixed retry intervals to avoid the pitfalls of dynamic tuning, keeping retry timing consistent across different error conditions.
- D. Conduct failure injection testing with varied error types (timeouts, rate limits, malformed responses) while monitoring recovery patterns and fallback behavior.
- E. Test under normal network conditions to establish baseline behavior, comparing results against production performance during degraded service scenarios.

Answer: A,D

Explanation:
Together, A states "Analyze retry logic for exponential backoff patterns, retry limits, and circuit breaker integration to prevent cascading failures in distributed systems."; E states "Conduct failure injection testing with varied error types (timeouts, rate limits, malformed responses) while monitoring recovery patterns and fallback behavior.", so the answer covers both sides of the requirement instead of solving only the model or only the infrastructure layer. Retry analysis and failure injection expose whether the

agent handles timeout, rate-limit, and malformed-response paths. Normal-condition tests are insufficient. In a GPU-backed agent deployment, the combination of Options A and E maps closest to how the NVIDIA stack expects orchestration, inference, and control policies to be separated. This lines up with NVIDIA guidance because NeMo Agent Toolkit treats agents, tools, and workflows as composable functions, so tool-calling agents can choose from names, descriptions, and schemas rather than guessed endpoints. The correct implementation surface is tool contracts that can be versioned, tested, and observed independently from the reasoning loop.
That is why the other options are traps: manual tool wiring scales poorly as the catalog grows and usually fails silently when a vendor updates parameters or response fields. This choice gives engineering teams the knobs they need for continuous tuning after deployment.

NEW QUESTION # 98
What is a key limitation of Chain-of-Thought (CoT) prompting when using smaller language models for reasoning tasks?

- A. CoT prompting simplifies error analysis for small models, making it easy to identify and correct mistakes at each reasoning step.
- B. CoT prompting ensures step-by-step outputs, enabling even small models to solve complex problems reliably.
- C. CoT prompting requires relatively large models; smaller models may produce reasoning chains that appear logical but are actually incorrect, leading to poorer performance.
- D. CoT prompting consistently improves the logical accuracy of outputs for both small and large language models.

Answer: C

Explanation:
This is a lifecycle problem, not a wording problem, and Option C gives the team a controllable lifecycle for the agent behavior. The selected option specifically C states "CoT prompting requires relatively large models; smaller models may produce reasoning chains that appear logical but are actually incorrect, leading to poorer performance.", which matches the operational requirement rather than a superficial wording match. Small models can generate plausible but false reasoning chains. CoT helps mainly when the model has enough capacity to use the intermediate steps accurately. The implementation detail that matters is demonstrated tool usage examples plus schemas so action selection becomes constrained rather than guessed. For a production build, the prompt should align with the downstream evaluator so the model is rewarded for the behavior the system actually needs. The losing choices mostly optimize for short-term convenience; prompt-only fixes cannot compensate for missing tools, stale knowledge, or absent validation. That is the difference between an agent that works in a notebook and an agent that remains reliable in production.

NEW QUESTION # 99
Your agent is generating inconsistent and contradictory statements.
Which approach would be most suitable to improve the agent's output?

- A. Increasing the number of generated plans
- B. Employing Reflexion
- C. Using Decomposition-First Planning
- D. Decreasing the length of prompts

Answer: B

Explanation:
At production scale, Option A preserves separability between reasoning, state, tools, and runtime operations.
The selected option specifically A states "Employing Reflexion", which matches the operational requirement rather than a superficial wording match. Reflexion targets self-correction after inconsistent outputs. More plans can multiply contradictions; shorter prompts usually remove useful constraints. The high-value engineering move is demonstrated tool usage examples plus schemas so action selection becomes constrained rather than guessed. For a production build, the prompt should align with the downstream evaluator so the model is rewarded for the behavior the system actually needs. The losing choices mostly optimize for short- term convenience; prompt-only fixes cannot compensate for missing tools, stale knowledge, or absent validation. Anything less would make the agent fragile when traffic, schemas, policies, or user behavior shift.
The prompt should reduce ambiguity at the action boundary, where poor wording turns into bad tool calls or incomplete extraction. The architecture must keep model reasoning, service execution, and operational telemetry aligned so later tuning is based on evidence rather than guesswork.

NEW QUESTION # 100
A healthcare AI company is deploying diagnostic agents that process medical imaging and patient data. The system must deliver consistent sub-100ms inference times for critical diagnoses while supporting deployment across multiple hospital sites with different NVIDIA GPU configurations (from RTX 6000 workstations to DGX systems). The agents need to maintain high accuracy while being portable across different hardware environments and capable of running efficiently on various GPU memory configurations. Which optimization strategy would deliver the BEST performance improvements while maintaining deployment flexibility across diverse NVIDIA hardware configurations?

- A. Deploy agents with NVIDIA CUDA-optimized Docker containers using a sequential inference architecture that processes each layer individually with GPU-to-CPU memory transfers between operations to avoid memory issues.
- B. Deploy agents using model optimizations with post-training quantization with Nvidia NIM deployment for portable performance across different GPU platforms and memory configurations.
- C. Deploy models using NVIDIA TensorRT optimization in their original FP32 precision format without any quantization or memory optimization, requiring 32GB+ GPU memory across all deployment sites.
- D. Deploy agents using NVIDIA NIM containers with CPU-optimized inference to avoid GPU memory constraints and ensure consistent performance across different hospital infrastructure configurations.

Answer: B

Explanation:
The implementation detail that matters is multi-region placement, automated failover, and rolling deployment practices for low-latency resilient agent serving. Option D is the right call because it gives the platform team levers to tune behavior without rewriting the entire agent loop. Post-training quantization plus NIM deployment gives portability across GPU memory profiles while preserving high-performance inference.
FP32-only deployment is too rigid for mixed hospital hardware. Within the NVIDIA stack, a production stack should connect DCGM, Prometheus, Grafana, HPA, and model-serving latency so scaling follows the real bottleneck. The selected option specifically D states "Deploy agents using model optimizations with post- training quantization with Nvidia NIM deployment for portable performance across different GPU platforms and memory configurations.", which matches the operational requirement rather than a superficial wording match. The rejected options are weaker because fixed clusters, manual scaling, or single-node deployments waste accelerators during quiet periods and fail predictably during launch spikes. That is the difference between an agent that works in a notebook and an agent that remains reliable in production.

NEW QUESTION # 101
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