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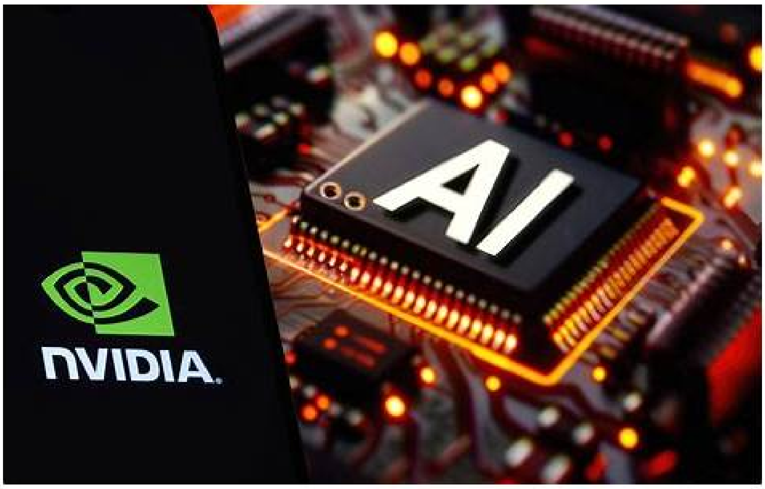

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NVIDIA Agentic AI Sample Questions (Q11-Q16):

NEW QUESTION # 11
A development team is building a customer support agent that interacts with users via chat. The agent must reliably fetch information from external databases, handle occasional API failures without crashing, and improve its responses by learning from user feedback over time.
Which of the following tasks is most critical when enhancing an AI agent to handle real-world interactions and improve over time?

- A. Utilizing internal knowledge bases to support agent responses alongside external APIs
- B. Applying a well-structured training process with foundational generative models and prompt engineering
- C. Implementing retry logic for error handling and integrating user feedback loops for iterative improvement
- D. Designing conversation flows that provide consistent responses based on predefined scripts

Answer: C

Explanation:
For this scenario, Option C is defensible because it exposes the control plane that a senior engineer can test, scale, and harden. The

selected option specifically C states "Implementing retry logic for error handling and integrating user feedback loops for iterative improvement", which matches the operational requirement rather than a superficial wording match. Real systems fail at the boundaries: API outages, bad payloads, and unmodeled user feedback. Retry logic plus feedback loops closes that boundary. Operationally, the design depends on a plugin-style execution layer that keeps external systems outside the model while still letting the agent invoke them deterministically. Within the NVIDIA stack, a production NVIDIA deployment can put tool latency, errors, and schema validation into traces, then tune the workflow without changing the foundation model. The losing choices mostly optimize for short-term convenience; static or unvalidated integration choices cannot withstand transient outages, rate limits, malformed responses, or schema drift. It also creates clean evidence for audits, incident review, and root-cause analysis when behavior drifts.

NEW QUESTION # 12
You've deployed an agent that helps users troubleshoot technical issues with their devices. After several weeks in production, user feedback indicates a decline in response accuracy, especially for newer issues.
Which monitoring method is most appropriate for identifying the root cause of declining agent performance?

- A. Analyze logs of tool usage frequency and error rates during inference
- B. Schedule a weekly re-deployment cycle to reset the model and improve freshness
- C. Compare average prompt length over time to analyze common input patterns
- D. Review output token counts across sessions to detect unusual model behavior

Answer: A

Explanation:
In NVIDIA terms, the NVIDIA stack makes it possible to correlate model-serving metrics with workflow events and user-visible task failures. Declining accuracy for newer issues often comes from tool failures, stale retrieval paths, or changed sources. Tool-use logs and error rates expose that drift. The architecture implied by Option B is the one that survives real workloads: separate responsibilities, explicit contracts, and measurable runtime behavior. The selected option specifically B states "Analyze logs of tool usage frequency and error rates during inference", which matches the operational requirement rather than a superficial wording match.
The correct implementation surface is repeatable benchmark suites that separate accuracy, cost, latency, reliability, and human satisfaction rather than blending them into one vague score. The losing choices mostly optimize for short-term convenience; offline benchmarks alone cannot expose live API failures, schema drift, queue saturation, or feedback-driven dissatisfaction. This choice gives engineering teams the knobs they need for continuous tuning after deployment.

NEW QUESTION # 13
Your agent is generating inconsistent and contradictory statements.
Which approach would be most suitable to improve the agent's output?

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

Answer: C

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 # 14
What NVIDIA framework can be used to train a better agent?

- A. NeMo Guardrails
- B. NeMo-RL
- C. TensorRT-LLM

Answer: B

Explanation:
The rejected options are weaker because tuning one component in isolation or relying on FP32/default settings leaves GPU memory bandwidth, batching windows, and queuing delay unmanaged. NeMo-RL is the training-oriented answer, especially for agents that need better multi-step tool use or verifiable task completion. Guardrails govern behavior; TensorRT-LLM accelerates inference. The architecture implied by Option A is the one that survives real workloads: separate responsibilities, explicit contracts, and measurable runtime behavior. The selected option specifically A states "NeMo-RL", which matches the operational requirement rather than a superficial wording match. In NVIDIA terms, Triton's metrics make GPU and model behavior visible enough to correlate batching efficiency with user-facing latency. The practical pattern is measuring queue time, compute time, execution count, and memory pressure instead of guessing from average response time. This is exactly where NVIDIA's stack is strongest: separating acceleration, orchestration, policy, and observability. For LLM systems, the bottleneck often shifts between compute kernels, KV cache memory, request queues, and guardrail/tool latency.

NEW QUESTION # 15
You are evaluating your RAG pipeline. You notice that the LLM-as-a-Judge consistently assigns high similarity scores to responses that contain irrelevant information.
What should you investigate as the most likely potential cause with the least development effort?

- A. The prompt used to instruct the LLM-as-a-Judge to assess the response.
- B. The quality of the synthetic questions used for evaluation.
- C. The size of the knowledge base used to power the RAG pipeline.
- D. The temperature setting used by the LLM during response generation.

Answer: A

Explanation:
The selected option specifically D states "The prompt used to instruct the LLM-as-a-Judge to assess the response.", which matches the operational requirement rather than a superficial wording match. This is a lifecycle problem, not a wording problem, and Option D gives the team a controllable lifecycle for the agent behavior. The implementation detail that matters is explicit control over which chunks enter the prompt and why, including filters for policy, provenance, and recency. When the judge rewards irrelevant answers, the judge instruction is usually under-specified. Retuning the evaluator prompt costs less than rebuilding the knowledge base or generation model. That is why the other options are traps: a larger model cannot compensate for missing, irrelevant, or outdated retrieved evidence. For a production build, NVIDIA RAG patterns separate indexing, retrieval, generation, and guardrail checks so chunks can be tested, cached, filtered, and refreshed independently. That is the difference between an agent that works in a notebook and an agent that remains reliable in production.

NEW QUESTION # 16
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