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Anthropic CCAR-F Exam Syllabus Topics:

Section	Weight	Objectives
Tool Design & MCP Integration	18%	- Tool distribution and permission controls - MCP tool, resource and prompt implementation - Error handling and tool response formatting - Tool schema design and interface boundaries - Model Context Protocol (MCP) architecture and JSON-RPC 2.0
Context Management & Reliability	15%	- Idempotency, consistency and failure resilience - Token budget management and cost control - Context window optimization and prioritization - Context pruning and summarization strategies
Prompt Engineering & Structured Output	20%	- JSON schema design and structured output enforcement - System prompt design and persona alignment - Validation, parsing and retry loop strategies - Explicit criteria definition and few-shot prompting
Agentic Architecture & Orchestration	27%	- Multi-agent patterns: coordinator-subagent and hub-and-spoke - Session state management and workflow enforcement - Agentic loop design and stop_reason handling - Error recovery, guardrails and safety patterns - Task decomposition and dynamic subagent selection
Claude Code Configuration & Workflows	20%	- CI/CD integration and non-interactive mode parameters - Custom slash commands and plan mode vs direct execution - Path-specific rules and .claude/rules/ configuration - Hooks vs advisory instructions - CLAUDE.md hierarchy, precedence and @import rules

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Prepare For Anthropic CCAR-F Certification Exam

The CCAR-F study guide in order to allow the user to form a complete system of knowledge structure, the qualification CCAR-F examination of test interpretation and supporting course practice organic reasonable arrangement together, the CCAR-F simulating materials let the user after learning the section of the new curriculum can through the way to solve the problem to consolidate, and each section between cohesion and is closely linked, for users who use the CCAR-F Exam Prep to build a knowledge of logical framework to create a good condition.

Anthropic Claude Certified Architect - Foundations Sample Questions (Q127-Q132):

NEW QUESTION # 127

You are building a multi-agent research system using the Claude Agent SDK. A coordinator agent delegates to specialized subagents: one searches the web, one analyzes documents, one synthesizes findings, and one generates reports. The system researches topics and produces comprehensive, cited reports.

You have configured the system so that all four subagents have access to the complete set of 18 tools. During testing, agents frequently call tools outside their specialization-the synthesis agent attempts web searches, and the report generator tries to analyze documents.

What is the primary cause of this poor tool-selection behavior?

- A. The tool definitions consume too much context-window space, leaving insufficient room for task content.
- B. The coordinator cannot track which capabilities each subagent has, leading to misrouted tasks.
- C. Choosing from 18 tools instead of four or five relevant tools increases decision complexity beyond reliable selection thresholds.
- D. The agents' role descriptions in their system prompts conflict with having access to tools outside those roles.

Answer: D

NEW QUESTION # 128

You built an LLM-powered code-review tool that analyzes pull requests and returns structured findings. Each finding is a JSON object containing `file_path`, `line_number`, `issue_category`-such as security or style-and description. Developers can dismiss findings they consider unhelpful, and currently 35% of findings are dismissed. You want to analyze these dismissals to understand what the system is getting wrong and improve the prompts accordingly. What change to the output structure would best support this analysis?

- A. Add a `detected_pattern` field recording the specific code construct that triggered the finding, such as single-letter loop variable.
- B. Add a `model_confidence` field from 0.0 to 1.0 and filter findings below a threshold calibrated against historical dismissal rates.
- C. Expand the description field with more detailed explanations of why each issue matters and how it should be fixed.
- D. Remove the `issue_category` field and track dismissal rates only at the individual-finding level.

Answer: A

Explanation:

Option B creates the granular error taxonomy needed to understand recurring false-positive patterns. The existing `issue_category` field is too broad: a high dismissal rate for style does not reveal whether developers object to single-letter variables, line-length warnings, naming conventions, or something else. Recording the detected construct allows dismissal rates to be grouped by trigger and connected to targeted prompt revisions or project-specific examples.

Anthropic's evaluation guidance recommends measurable, task-specific criteria and evaluation cases that reflect real production behavior and edge cases. Its structured-output documentation supports schema- constrained, parseable records suitable for this type of downstream analysis.

Option A can help rank findings, but a confidence score does not explain why developers reject them and may be poorly calibrated across issue types. Option C produces more text without adding a stable dimension for aggregation. Option D removes useful category information and makes systematic analysis harder. A normalized `detected_pattern` field enables dashboards, pattern-level dismissal metrics, representative-example sampling, and controlled evaluations of prompt changes while retaining the broader category for higher-level reporting.

NEW QUESTION # 129

You are building developer-productivity tools using the Claude Agent SDK. The agent helps engineers explore unfamiliar codebases, understand legacy systems, generate boilerplate code, and automate repetitive tasks. It uses the built-in tools-Read, Write, Bash, Grep, and Glob-and integrates with Model Context Protocol (MCP) servers.

An engineer sees the unfamiliar error message `SYNC_CONFLICT: entity version mismatch detected` in production logs but does not know which of the 12 services in the codebase generates it. The engineer asks the agent to locate the responsible source code. What exploration approach will find the responsible code most efficiently?

- A. Use Grep to locate every file importing the project's error-handling module, and then read those files to find custom error definitions.
- B. Use Glob to find files in directories commonly associated with error handling, such as `errors`, `exceptions`, or `handlers`, and then read every matching file.

- C. Read the project's README and service-configuration files, and then systematically read source files in every service directory.
- D. Use Grep to search for distinctive text from the error message, such as SYNC_CONFLICT or entity version mismatch, and then read the matching files to understand the context.

Answer: D

Explanation:

Option A begins with the strongest available discriminator: the exact production error text. Anthropic's tools reference specifies that Grep searches file contents and returns matching lines, enabling the agent to locate a literal error constant or message without loading the full repository. Searching both the stable code SYNC_CONFLICT and the distinctive phrase protects against cases where the identifier and displayed message are defined separately. The agent can then read only the matching files and follow the surrounding call path, error construction, and service ownership. Option B assumes that errors are stored in conventionally named directories, which may not hold in a twelve-service repository. Option C consumes substantial context before using the most direct evidence. Option D narrows the search to consumers of a known shared error module, but the message may be locally defined, generated from configuration, or wrapped by another component. Grep followed by targeted Read operations follows Anthropic's broader context-engineering principle of retrieving relevant source material just in time instead of placing an entire codebase into the active context.

NEW QUESTION # 130

You are building developer productivity tools using the Claude Agent SDK. The agent helps engineers explore unfamiliar codebases, understand legacy systems, generate boilerplate code, and automate repetitive tasks. It uses the built-in tools (Read, Write, Bash, Grep, Glob) and integrates with Model Context Protocol (MCP) servers.

Your codebase exploration tool stores session IDs to allow engineers to continue investigations across work sessions. An engineer spent an hour yesterday analyzing a legacy authentication module, building context about its architecture and dependencies. They want to continue today. The session ID is valid, but version control shows 3 of the 12 files the agent previously read were modified overnight by a teammate's merge.

What approach best balances efficiency and accuracy?

- A. Start a fresh session to ensure the agent works with current codebase state without stale assumptions
- B. Resume the session and immediately have the agent re-read all 12 previously analyzed files
- C. Resume the session without informing the agent about the changed files
- D. Resume the session and inform the agent which specific files changed for targeted re-analysis

Answer: D

Explanation:

Resuming preserves the prior architectural analysis, dependency mapping, and conversation history, avoiding the cost of repeating an hour of valid work. Anthropic states that resuming by session ID restores the agent's full prior context, including files read, analysis performed, and decisions made. (<https://code.claude.com/docs/en/agent-sdk/sessions>)

However, the session represents historical knowledge rather than a repository snapshot. Because three files changed externally, the agent must be told which files are affected and directed to re-read them before relying on earlier conclusions. Anthropic clarifies that sessions persist the conversation, not the filesystem. (<https://code.claude.com/docs/en/agent-sdk/sessions>) Targeted re-analysis updates the stale portion of the agent's model while retaining the nine unchanged files' established context.

Option A discards valuable work even though most of the analyzed code remains unchanged. Option C is accurate but inefficient because it reprocesses all twelve files regardless of whether they changed. Option D is unsafe: the agent may continue reasoning from obsolete function signatures, dependencies, or control flows.

The continuation prompt should identify the changed files, summarize the merge's purpose where known, and request a focused comparison against the earlier understanding. Any architectural conclusions affected by those changes should then be revised explicitly.

Official references/topics: Session Resume; Filesystem Versus Conversation State; Targeted Re-Analysis; Repository Change Awareness.

NEW QUESTION # 131

You are integrating Claude Code into your Continuous Integration/Continuous Deployment (CI/CD) pipeline.

The system runs automated code reviews, generates test cases, and provides feedback on pull requests. You need to design prompts that provide actionable feedback and minimize false positives.

A developer uses Claude Code to refactor a function during a development session. Before committing, the developer asks the same Claude session to review the code for issues. Later, a separate automated CI review catches several bugs that the same-session review missed.

What best explains this discrepancy?

- A. The CI environment can access the full repository, while a local Claude Code session can access only the current file.
- B. The CI review must have used a more specific prompt, while the developer's review request was too general.
- C. The session's context window necessarily became full, leaving insufficient capacity for meaningful review.
- **D. Claude retains the implementation context and prior decisions in the session, making it less likely to challenge assumptions underlying its own changes.**

Answer: D

Explanation:

Option A describes the principal reason an independent review context is valuable. The implementing session contains the assumptions, interpretations, and reasoning that produced the refactor. When asked to review its own work, Claude may continue operating within those same assumptions and therefore overlook defects caused by them. A fresh reviewer evaluates the resulting diff and stated requirements independently, without inheriting the implementation narrative.

Anthropic's Claude Code best-practices guidance explicitly recommends an adversarial review step using a fresh subagent or separate context. It explains that the reviewer should see the diff and review criteria rather than the reasoning that produced the change. Option B is possible in an unusually long session, but the scenario provides no evidence that the context window was exhausted. Option C could influence review quality, but no prompt difference is established. Option D is factually incorrect: a local Claude Code session can inspect the checked-out repository through its filesystem tools. The reliable workflow is therefore a writer /reviewer separation in which implementation occurs in one context and correctness review occurs in a fresh context with explicit evidence and reporting criteria. Claude Code best practices

NEW QUESTION # 132

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