

# □ Python / Agentic AI Exam – Agent Configuration (Basic)

100 Questions & Answers

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## Intro to Configuration

1.

Q: What is Agent Configuration?

A: The setup of parameters that control how an Agent behaves, reasons, and uses tools.

2.

Q: Which 3 main areas are covered by configuration?

A: Model settings, tool usage, and execution rules.

3.

Q: Why is configuration important?

A: It customizes Agent behavior for specific tasks and performance.

4.

Q: True or False: An Agent can run without configuration.

A: True – it runs with defaults, but less optimized.

5.

Q: Which module stores configuration in most frameworks?

A: Agent's config object or Runner settings.

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# Model Settings

6.

Q: Which config controls randomness of outputs?

A: Temperature.

7.

Q: What does top\_p control?

A: Probability distribution sampling (nucleus sampling).

8.

Q: What does top\_k control?

A: The number of top tokens considered.

9.

Q: Which config prevents repetition?

A: Penalties (frequency, presence penalties).

10.

Q: Which config decides creativity level?

A: Temperature.

11.

Q: What happens when temperature = 0?

A: Deterministic outputs.

12.

Q: What happens when temperature = 1?

A: More diverse outputs.

13.

Q: If top\_p = 1, what does that mean?

A: All tokens are considered (no restriction).

14.

Q: If `top_k = 1`, what does that mean?

A: Only the most likely token is chosen.

15.

Q: Which two configs work together for sampling?

A: `top_p` and `top_k`.

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## Tool Choice Config

16.

Q: What does `tool_choice` define?

A: Whether the Agent can select tools and how.

17.

Q: If `tool_choice = "auto"`, what happens?

A: Agent decides automatically which tool to use.

18.

Q: If `tool_choice = "none"`, what happens?

A: Agent does not use any tool.

19.

Q: If `tool_choice = "required"`, what happens?

A: Agent must use a tool to answer.

20.

Q: Which config enables/disables specific tools?

A: `is_enabled`.

21.

Q: Can multiple tools be enabled at once?

A: Yes.

22.

Q: Which config lets an Agent re-select tools mid-run?

A: reset\_tool\_choice.

23.

Q: What happens if a disabled tool is called?

A: Agent error or fallback.

24.

Q: Who decides final tool execution?

A: Runner executes after Agent's request.

25.

Q: True or False: Tool configs are global only.

A: False – they can be per-Agent.

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## Execution Control

26.

Q: What is max\_turns in config?

A: Maximum reasoning steps before stopping.

27.

Q: Why limit max\_turns?

A: To prevent infinite loops.

28.

Q: Which config sets timeout for execution?

A: Execution timeout.

29.

Q: What happens if max\_turns exceeded?

A: Runner stops the Agent.

30.

Q: Which config controls retries?

A: retry policy.

31.

Q: Which config logs each step?

A: Tracing/logging.

32.

Q: Which config ensures deterministic runs?

A: seed + temperature=0.

33.

Q: Which config handles fallback models?

A: failover\_model.

34.

Q: What does strict\_mode do?

A: Enforces strict schema/tool use.

35.

Q: Can execution be interrupted mid-run?

A: Yes, via Runner control.

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## Context Handling

36.

Q: Which config decides how much context is kept?

A: Context window.

37.

Q: What is context\_filter used for?

A: To remove unwanted/unsafe input.

38.

Q: What does memory\_enabled control?

A: Whether Agent uses memory.

39.

Q: Which config controls conversation history?

A: keep\_history.

40.

Q: If keep\_history = False, what happens?

A: No past conversation is stored.

41.

Q: Which config ensures context doesn't exceed limits?

A: truncation\_policy.

42.

Q: Which config hides sensitive inputs?

A: redaction\_filter.

43.

Q: Which config sets priority for context items?

A: context\_priority.

44.

Q: Can context filtering prevent data leaks?

A: Yes.

45.

Q: What if context window exceeds max length?

A: Model truncates earlier content.

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## Handoff Config

46.

Q: What is handoff in config?

A: Delegating tasks to another Agent.

47.

Q: Which config defines the handoff function?

A: on\_handoff.

48.

Q: What is input\_type in handoff config?

A: The format expected for delegated input.

49.

Q: What is input\_filter in handoff config?

A: Validates or restricts inputs before handoff.

50.

Q: Which config decides if delegation is allowed?

A: is\_enabled for handoff.

51.

Q: What happens if on\_handoff is missing?

A: Default handoff behavior or error.

52.

Q: Can one Agent handoff to multiple Agents?

A: Yes.

53.

Q: Which config controls failure in handoff?

A: failure\_error\_function.

54.

Q: Which config defines output transformation?

A: custom\_output\_extractor.

55.

Q: Example: Agent A calls Agent B → Who decides input format?

A: input\_type config.

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## Safety & Guardrails

56.

Q: Which config ensures safety constraints?

A: Guardrails.

57.

Q: Which config prevents unsafe tool calls?

A: is\_enabled = False.

58.

Q: Which config defines max token output?

A: max\_tokens.

59.

Q: Which config prevents excessive API use?

A: rate\_limit.

60.



Q: What does stop\_sequences config do?

A: Stops generation at certain phrases.

61.

Q: Which config blocks banned words?

A: content\_filter.

62.

Q: Which config ensures compliance policies?

A: policy\_enforcer.

63.

Q: Which config ensures logging of harmful attempts?

A: safety\_log.

64.

Q: Which config masks sensitive data?

A: redaction.

65.

Q: True or False: Guardrails are optional.

A: False – strongly recommended.

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## Error Handling

66.

Q: Which config defines custom error messages?

A: failure\_error\_function.

67.

Q: What happens if no error config set?

A: Default error behavior.

68.

Q: Which config retries after error?

A: retry\_policy.

69.

Q: Which config logs error events?

A: error\_logger.

70.

Q: Which config falls back to another model?

A: failover\_model.

71.

Q: Which config suppresses errors from user view?

A: silent\_fail.

72.

Q: Which config escalates errors to admins?

A: escalation\_policy.

73.

Q: Which config triggers re-prompt after failure?

A: retry\_on\_failure.

74.

Q: Which config stops Agent after repeated errors?

A: max\_retries.

75.

Q: True or False: Agents cannot recover from failure.

A: False – recovery possible.

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# Advanced Config

76.

Q: What does `name_override` do?

A: Overrides tool or Agent name in config.

77.

Q: What does `description_override` do?

A: Customizes tool/Agent description.

78.

Q: Which config controls structured JSON output?

A: `structured_output`.

79.

Q: Which config forces schema validation?

A: `strict_schema`.

80.

Q: Which config controls streaming tokens?

A: `streaming_enabled`.

81.

Q: Which config defines orchestration rules?

A: `orchestration_policy`.

82.

Q: Which config allows cloning of Agents?

A: `clone_config`.

83.

Q: Which config determines output type?

A: `output_type`.

84.

Q: Which config sets log detail level?

A: log\_level.

85.

Q: Which config controls tool\_use\_behavior?

A: tool\_use\_behavior param.

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## Practical Config Scenarios

86.

Q: Config: temperature=0.0 □ How does Agent behave?

A: Predictable, deterministic.

87.

Q: Config: temperature=0.9 □ How does Agent behave?

A: Creative, random.

88.

Q: Config: top\_k=5 □ What does it do?

A: Considers 5 most likely tokens.

89.

Q: Config: tool\_choice="auto" □ What happens?

A: Agent decides when to use tools.

90.

Q: Config: is\_enabled=False □ What happens?

A: Tool or feature disabled.

91.

Q: Config: max\_turns=3 □ What happens?

A: Agent reasoning limited to 3 steps.

92.

Q: Config: stop\_sequences=["END"] □ What happens?

A: Generation halts when "END" appears.

93.

Q: Config: retry=2 □ What happens?

A: Agent retries failed step twice.

94.

Q: Config: structured\_output=True □ What happens?

A: Outputs follow JSON schema.

95.

Q: Config: reset\_tool\_choice=True □ What happens?

A: Agent can switch tool mid-task.

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## Summary & Edge Cases

96.

Q: Which config makes Agents flexible with tools?

A: tool\_choice.

97.

Q: Which config makes Agents predictable?

A: temperature=0.

98.

Q: Which config makes Agents robust to errors?

A: failure\_error\_function + retries.

99.

Q: Which config enables multiple Agents collaboration?

A: handoff configs.

100.

Q: What is the ultimate purpose of configuration?

A: To shape Agent's reasoning, tool use, safety, and outputs.