📘 MCQs: OpenAI Agents SDK – Fundamentals of Agentic AI

**1. What is the OpenAI Agents SDK primarily used for?**

A) Data visualization  
B) Building and running AI agents with structured tools  
C) Managing cloud servers  
D) Image rendering

**Answer:** B  
**Explanation:** The OpenAI Agents SDK helps developers build, configure, and run **AI agents** that can use tools, maintain context, and return structured outputs.

**2. Which core class represents an AI-powered agent in the SDK?**

A) Runner  
B) Agent  
C) Tool  
D) Session

**Answer:** B  
**Explanation:** The Agent class defines the behavior of an AI agent.

**3. What does the Runner class do in the Agents SDK?**

A) Handles token sampling  
B) Executes an agent’s logic and manages state  
C) Stores JSON schemas  
D) Generates embeddings

**Answer:** B  
**Explanation:** Runner manages the **execution lifecycle** of an agent.

**4. In the Agents SDK, what is a “tool”?**

A) A function or API an agent can call  
B) A system prompt  
C) A chain of thoughts  
D) A visualization method

**Answer:** A  
**Explanation:** Tools allow agents to call **functions, APIs, or external resources**.

**5. Which of the following is needed before running an agent with the SDK?**

A) Define an Agent and a RunConfig  
B) Enable GPU acceleration  
C) Train a new model  
D) Import matplotlib

**Answer:** A  
**Explanation:** Agents require **definitions and configuration** before being executed with Runner.

**6. What does RunConfig specify?**

A) Python version  
B) Execution environment and runtime settings  
C) Prompt structure only  
D) Database connections

**Answer:** B  
**Explanation:** RunConfig configures **runtime parameters**, like model, output type, and tools.

**7. Why are output\_type schemas important in Agents SDK?**

A) They limit token usage  
B) They define structured outputs  
C) They generate embeddings  
D) They store environment variables

**Answer:** B  
**Explanation:** output\_type enforces that the agent returns **structured and validated results**.

**8. Which of the following is TRUE about system messages in Agents SDK?**

A) They are ignored by the agent  
B) They guide agent behavior and safety  
C) They disable validation  
D) They act as output schemas

**Answer:** B  
**Explanation:** **System messages** instruct agents on behavior, safety, and role alignment.

**9. What role does context management play in the SDK?**

A) Stores only error logs  
B) Maintains memory and conversation history  
C) Runs Python functions  
D) Manages embeddings

**Answer:** B  
**Explanation:** Context ensures agents **remember previous interactions**.

**10. How does the SDK support sensitive data handling?**

A) By ignoring it  
B) Using safe system messages and redaction  
C) Encrypting all prompts  
D) Blocking API calls

**Answer:** B  
**Explanation:** Safe system messages **prevent leakage of sensitive data** like API keys.

**11. Which execution pattern does the SDK follow?**

A) Request → Agent → Runner → Output  
B) Output → Runner → Agent → Prompt  
C) Prompt → Tokenizer → Dataset → Embedding  
D) Agent → GPU → Tensor → JSON

**Answer:** A  
**Explanation:** Execution starts with a **request**, handled by the agent, executed by Runner, and returned as structured output.

**12. Which type of outputs are common in Agents SDK?**

A) Free text only  
B) Structured data using Pydantic models/dataclasses  
C) Images only  
D) CSV files only

**Answer:** B  
**Explanation:** Agents often return **structured results** using Pydantic or dataclasses.

**13. Which of these is an advantage of using OpenAI Agents SDK?**

A) No need for schema validation  
B) Built-in tool integration and validation  
C) Runs only on local machines  
D) Removes all safety layers

**Answer:** B  
**Explanation:** The SDK provides **integrated validation, safety, and tool calling**.

**14. What is the function of function\_tool in the SDK?**

A) Defines a tool by wrapping a Python function  
B) Runs external scripts  
C) Stores embeddings  
D) Creates JSON schemas manually

**Answer:** A  
**Explanation:** function\_tool converts Python functions into callable tools for agents.

**15. Which of the following models can be used with Agents SDK?**

A) Only GPT-3  
B) GPT-4, GPT-4o, and other OpenAI models  
C) Only local models  
D) Image-only models

**Answer:** B  
**Explanation:** The SDK supports multiple **OpenAI models** like GPT-4 and GPT-4o.

**16. What is an example use case of Agents SDK?**

A) Multi-agent reasoning with structured tool use  
B) Training large datasets  
C) Video rendering  
D) Static report generation

**Answer:** A  
**Explanation:** Agents SDK is best suited for **tool-using, multi-agent reasoning tasks**.

**17. Which lifecycle feature allows developers to hook into an agent’s execution?**

A) Guardrails  
B) AgentHooks  
C) Context Manager  
D) OutputType

**Answer:** B  
**Explanation:** AgentHooks let developers run **custom logic at different execution stages**.

**18. In Fundamentals of Agentic AI, what problem does the Agents SDK mainly solve?**

A) Running AI without training  
B) Enabling safe, structured, tool-using agents  
C) Free token generation  
D) GPU training pipelines

**Answer:** B  
**Explanation:** The SDK simplifies building **safe and structured AI agents**.

**19. What is the significance of Guardrails in Agents SDK?**

A) They enforce structured output and safe behavior  
B) They optimize GPU memory  
C) They remove prompts  
D) They bypass validation

**Answer:** A  
**Explanation:** Guardrails ensure agents **adhere to schema and safety policies**.

**20. Best practice: When using Agents SDK in production, developers should…**

A) Disable validation for speed  
B) Always define tools, schema, and safe system messages  
C) Use free text only  
D) Avoid structured outputs

**Answer:** B  
**Explanation:** Defining **tools, schemas, and safety layers** ensures reliable and safe production agents.