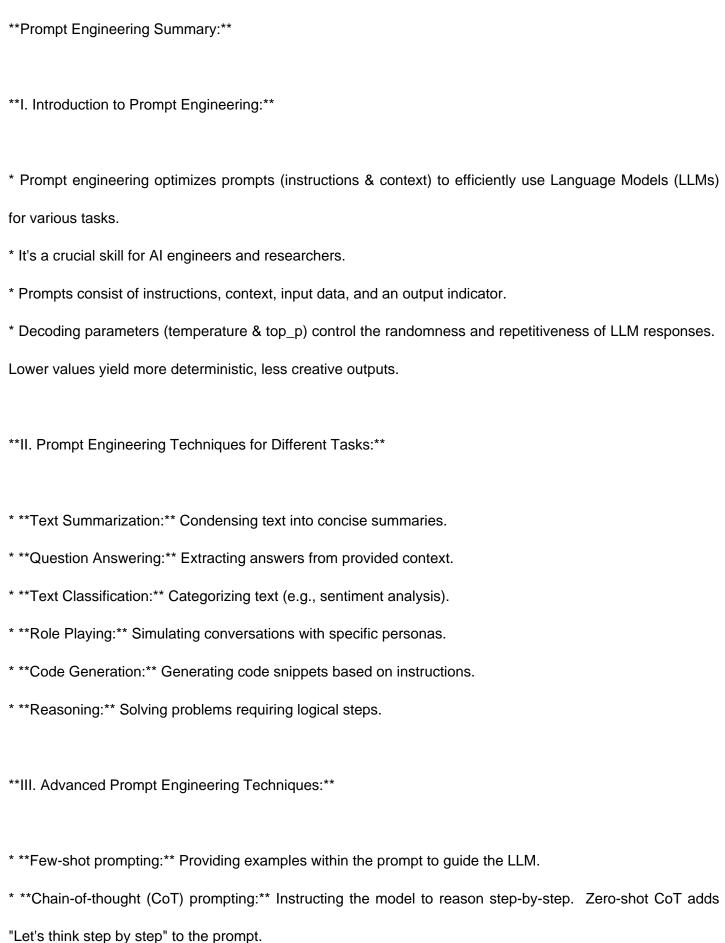
Study Assistant - Summary & Quiz

Summary



- * **Self-Consistency:** Sampling multiple reasoning paths and selecting the most consistent answer.
- * **Knowledge Generation Prompting:** Generating and incorporating knowledge into the prompt to improve complex reasoning.
- * **Program-aided Language Models (PAL):** Using LLMs to generate programs as intermediate reasoning steps, offloading execution to a runtime.
- * **ReAct:** LLMs generate reasoning traces and actions interleaved, allowing interaction with external tools and knowledge bases.
- * **Directional Stimulus Prompting:** Using a policy LM to generate hints guiding a frozen LLM to produce desired summaries.
- **IV. Risks of Prompt Engineering:**
- * **Prompt Injection:** Hijacking LLM output by injecting malicious commands.
- * **Prompt Leaking:** Forcing the model to reveal information about its own prompt.
- * **Jailbreaking:** Bypassing safety and moderation features to elicit undesirable responses.

Quiz Questions

- Q: Which of the following is NOT a core component of a prompt in prompt engineering?
- A. Instructions
- B. Output indicator
- C. Decoding parameters
- D. Input data

Answer: C. Decoding parameters. Decoding parameters (temperature and top_p) influence the *generation* of the LLM response, not the core structure of the prompt itself.

Q:	Which	advanced	prompt	engineering	technique	involves	guiding	а	language	model	to	reason
step-by-step, potentially adding a phrase like "Let's think step by step" to the prompt?												

- A. Self-Consistency
- B. ReAct
- C. Chain-of-Thought (CoT) prompting
- D. Knowledge Generation Prompting

Answer: C. Chain-of-Thought (CoT) prompting. The description directly matches the definition of Chain-of-Thought prompting.