

## PART A

### Research Questions (Short Answers)

#### 1. What new improvements were introduced in Gemini 3.0?

Gemini 3.0 introduces major upgrades in reasoning, long-context processing, faster inference speed, improved multimodal abilities, and better code generation. It also supports more efficient on-device performance, stronger memory handling, and lower latency for real-time tasks.

#### 2. How does Gemini 3.0 improve coding & automation workflows?

Gemini 3.0 provides more accurate code completion, stronger debugging, improved agentic reasoning for multi-step tasks, and faster execution. It also integrates directly with development tools, enabling automated refactoring, test generation, and workflow automation with fewer errors.

#### 3. How does Gemini 3.0 improve multimodal understanding?

Gemini 3.0 can understand images, text, audio, video, and complex documents with higher accuracy. It has better object recognition, improved OCR, stronger vision-language alignment, and more detailed reasoning about multimodal inputs, making it ideal for real-world applications.

#### 4. Name any two developer tools introduced with Gemini 3.0.

- Gemini Developer Console (updated version)
- Gemini Code Assist (AI coding assistant)

Other options include: Gemini API, Gemini Nano on-device tools, Gemini CLI upgrades, and Studio updates.

## PART B

### Practical Task

#### Task:

Update your Gemini model to **Gemini 3.0** using the `/model` command in the Gemini CLI.

