

Lecture 3 quiz

Five questions. 4 points each. 20 points total. Answer in your own words in 1–3 sentences per question.

Name _____ Student ID _____

Question 1 Diffusion

How does a diffusion model turn noise into an image?

4 points

Question 2 Seeds

What does the seed control, and why can changing it give a different image with the same prompt?

4 points

Question 3 Guidance

What does increasing guidance do? Why might very strong guidance make an image worse?

4 points

Question 4 Masks

What is a mask used for when editing an image? Give one example.

4 points

Question 5 Reading reflection

Choose one Lecture 3 reading. What is its main idea? Give one reason you agree or disagree with it.

4 points

[Reading 1 — Dario Amodei, We Must Pace the Frontier](#)

[Reading 2 — Jack Dorsey, open the frontier](#)

[Reading 3 — A controlled workflow for generating and editing images, with linked Diffusers documentation.](#)

[Technical source — Diffusers ControlNet guide](#)
