🎙 AIMS Interview Simulation — Duration: 15 min

🕐 0-2 min — Personal IntroductionQuestion

1: Hello, can you briefly introduce yourself?

☑ Suggested Answer:

Hello, my name is Ansoumane Condé, I come from Guinea. I recently completed a bachelor's degree in computer engineering with a specialization in software engineering, with a strong interest in applied mathematics, particularly in the fields of artificial intelligence and data science. I am passionate about technological solutions that have a social impact, particularly in health and agriculture.

🕐 2-6 min — Motivation & Career ProjectQuestion

2: Why do you want to join AIMS?

☑ Suggested Answer:

I want to join AIMS because it is an institute that combines scientific excellence, a pan-African spirit, and a commitment to the development of Africa.

I particularly appreciate AIMS's approach focused on solving concrete problems, working in teams, with international stakeholders. I want to be part of this dynamic to acquire solid skills and contribute to useful scientific projects for my country and the continent.

Question 3: What is your medium or long-term professional project?

☑ Suggested answer:

My goal is to become an engineer in the field of AI applied to health and agriculture. I would also like to teach later and contribute to scientific outreach, to encourage other interested young people.

Question 4: Why mathematics?

☑ Suggested answer:

Because it is a universal language that allows us to understand, model, and solve complex problems. Mathematics is at the heart of many innovative fields today: AI, cryptography, finance, epidemiology... It is a powerful tool to transform Africa.

🕐 6-11 min — Reasoning and logic

Question 5: Solve this little problem: "A number x is multiplied by 2, then we add 4. The result is 10. What is x?"

☑ Expected answer:

$2x + 4 = 10 \rightarrow 2x = 6 \rightarrow x = 3$ I set up the equation, isolate the variable, then find the solution.

Question 6: Explain to me a mathematical concept that you like.

☑ Possible example:

I like matrices because they are very useful in computer science, especially for images, graphs, or systems of equations. For example, a matrix can represent a linear transformation, such as a rotation in a plane.

Question 7: Suppose we draw a card at random from a deck of 52 cards. What is the probability of getting an ace?

☑ Answer:

There are 4 aces in a deck of 52 cards, so the probability is $4/52 = 1/13 \approx 0.077$ (or 7.7%)

🕐 11-14 min — Commitment to Africa & Reverse Questions

Question 8: How do you see your role in the development of the African continent?

☑ Answer:

I believe that science and data can transform public policies, agriculture, health, and education. I want to use my skills to solve local problems, develop innovative solutions, and inspire other young people to follow this path.

Question 9: Do you have a question for us?

☑ Example questions:

What are the most common final study project types at AIMS?

Does AIMS offer direct links with universities for PhD or the private sector?

What is the thing you appreciate most about this program?

🕐 14-15 min — Conclusion

Question 10: Any last words?

☑ Example:

I thank you for this opportunity. I am very eager to join AIMS to learn, contribute, and grow in a stimulating environment, while building the scientific Africa of tomorrow.