

INTERVIEW WITH AN ELECTRICAL ENGINEER ANSWERS

Q1. Give/explain the meaning of words in context.

Look at the phrase 'generating, transmitting and converting electricity'. Can you explain this in simpler terms?

A1. Making, sending and changing.

Q2. Retrieve and record information/identify key details.

Nikita Hari's research is important. Find three phrases/figures in the **whole** text which indicate how important it is.

A2. Any three of these answers are correct:

Electricity powers the world

Converters are only about 90% energy efficient

Jump-start the next generation of smaller, faster and more efficient power converters

Wasting billions of pounds

Trillions of adjustments

Transform the way the world handles electric power

Q3. Give/explain the meaning of words in context.

Nikita says ...'motivated' me to take up... What does this word mean?

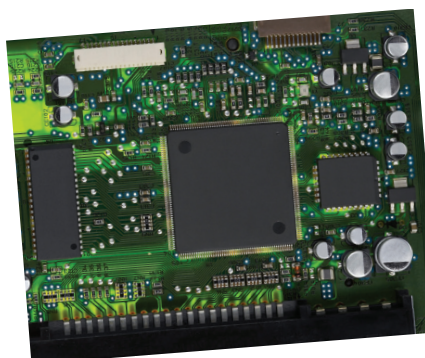
Circle the correct meaning.

A3. Interested Challenged Tried Wanted

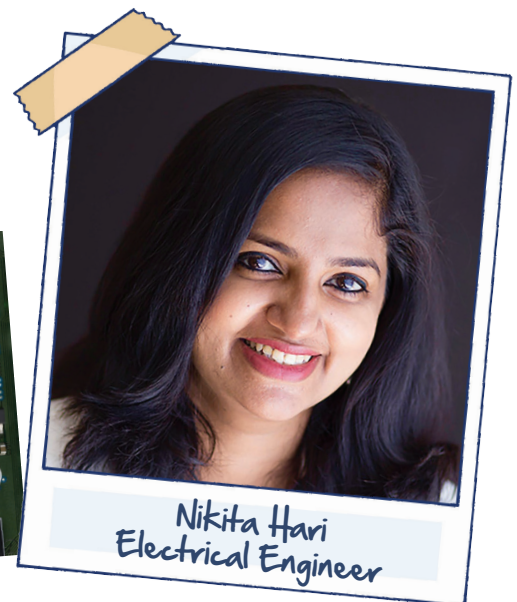
Q4. Retrieve and record information/identify key details.

What is normally used to make 'Power Electronic Converters'?

A4. Silicon.



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Q5. Retrieve and record information/identify key details.

What is the name of the new material that Nikita uses?

A5. Gallium nitride.

Q6. Retrieve and record information/identify key details.

Which phrase tells you that it was a very clear decision for Nikita to study engineering?

A6. Obvious choice to me.

Q7. Make inferences from the text/explain and justify inferences with evidence from the text.

Sum up Nikita's explanation of how she got to where she is today. Use evidence from the text.

A7. She was driven (determined) and worked hard (discipline). It was a dream (fairy tale) that became a reality. (Hard work is the secret of success).

Q8. Identify/explain how meaning is enhanced through choice of words and phrases.

What do you think the phrase 'bias against women' means?

A8. That people might put obstacles in their way, that they are not keen for women to go into some fields of science, that women are in the minority. Gender should not stop you.

Q9. Make inferences from the text/explain and justify inferences with evidence from the text.

The hero quote says 'Never get intimidated...'

What is Nikita's advice here? Use evidence from the text.

A9. Do not allow prejudice to stop you from doing what you most love. Don't let people stop you or deny you opportunities just because you are female.

Q10. Retrieve and record information/identify key details.

Where does Nikita work?

A10. The University of Cambridge.

