

✔ UNIT 4 – A TRULY BEAUTIFUL MIND

Detailed Explanation in Simple Words

This unit tells the story of Albert Einstein, a famous scientist known for discovering the theory of relativity. Einstein was born in Germany in 1879 and had many difficulties in his childhood. He was slow to speak and awkward with other children. His mother even thought he was a strange child.

He didn't like strict schooling and left school at 15. He later went to Switzerland, where he continued his studies. He loved mathematics and physics. He also fell in love with a fellow student named Mileva.

Einstein worked in a patent office and secretly worked on scientific ideas. In 1905, he published the special theory of relativity, which showed that time and distance are not fixed. His famous equation $E=mc^2$ describes how mass can be converted into energy.

Einstein became a Nobel Prize winner and world-famous scientist. He warned the U.S. president about nuclear weapons but later fought for peace. He is remembered as a genius and a visionary.

✔ Important Points

1. Genius does not come easily; it faces struggles.
 2. A supportive environment helps develop talents.
 3. Scientific discoveries can bring both benefits and dangers.
 4. Einstein's work changed how people see time, space, and energy.
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✔ Solved Questions

Q1. What difficulties did Einstein face as a child?

✔ He was slow to speak, socially awkward, and disliked strict schooling.

Q2. What is relativity?

✔ It's a theory that says time and distance change depending on how fast you are moving.

Q3. What did Einstein's equation $E=mc^2$ explain?

✔ It explained how mass can be converted into energy.

Q4. Why did Einstein write a letter to President Roosevelt?

✔ He warned about the danger of Nazi Germany developing atomic bombs.

Q5. Why is Einstein remembered as a world citizen?

✔ Because he fought for peace, science, and the well-being of humanity beyond his country.