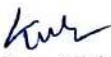


Gramin (ACS) Mahavidyalaya, Vasantnagar,


Tq. Mukhed Dist. Nanded

Department of Physics organized Essay Writing competition on Great Scientist
"Albert Einstein" on the date 03/08/2018.

Sr. No.	Name of the Students	Class	Marks Obtained (20)	Remark
1	Gaddamwad Shivaji Anandrao	B.Sc - I	11	
2	Imade Dnyanabai Vilas	B.Sc - I	12	
3	Shinde Parshuram Tukaram	B.Sc - II	11	
4	Shinde Priyanka Tukaram	B.Sc - II	13	III
5	Kadam Shashikant Laxman	B.Sc - II	08	
6	Najma Mubin Beg	B.Sc - II	15	I
7	Jadhav Prajta Ashokrao	B.Sc - I	10	
8	Kagne Shivkanya Subhash	B.Sc - II	14	II
9	Jadhav Sachin Devidas	B.Sc - I	10	II


Dr. M. A. Giri

Department of Physics,
G.M.V. Mukhed


Dr. D.K. Kendre

Head of Dept. of Physics
G.M.V. Mukhed


Principal

Dr. H. B. Rathod
Principal
Gramin Arts, Comm & Science
Mahavidyalaya, Vasantnagar
Tq. Mukhed Dist. Nanded

Albert Einstein - The Scientist

15
20

Najma

7/8/2018

Najma Mubin Beg

Date.....2. Jan Page No.....1.....

Science improves human life at every level from individual comfort to global issues. We see use of science or science in our day to day life.

I walk ---- how? Newton's third law of motion ---- science. We use specs or hearing aids ---- science there. Every house has got antibiotics & first aid kit for emergencies ---- science. While taking photos we don't stand facing the light directly ---- why? science! laws of reflections.

How could we know this? Due to scientists. "A scientist is someone who conducts scientific research to advance knowledge in an area of interest." Scientist help us create a better world. There were many scientists who make our life easy.

Date..... 3. Jan Page No..... 2

There is a scientist who doesn't need to give an introduction. He is best known to the general public for his mass energy equivalence formula $E = mc^2$, which has been dubbed "The world's most famous equation".

He is Albert Einstein, Albert Einstein born on 14 March, 1879 in Württemberg, Germany. Einstein's parents were secular, middle class Jews. His father Hermann Einstein was originally a featherbed salesman and later ran an electrochemical factory with moderate success. His mother's name is Pauline Koch. She is a housewife.

Albert Einstein has a sister named Mariya, born two years after him. There is a famous story of Albert's school and a letter given to him.

We are all familiar with her son Albert Einstein, but the world wouldn't know him without Pauline Einstein when Albert was in elementary school. His teacher sent a note home with him, now Albert was not able to read, so he asked his mother to read it to him. Tears began to form in her eyes as she read the letter to her son. She told Albert that he was so smart that his teachers could no longer teach him & that he is going to change the world.

Albert's mother went out & bought several books & started teaching Albert by herself. We know how that turned out, Albert Einstein becomes one of the most famous physicists of the 20th century, our daily life would not be as great as it is without him.

Later in Albert's life, after his mother's death he finds out what was really written within the letter. Now that he can read it for himself, he discovers that his teachers thought that he was too dumb to learn anything. Albert's teacher wrote that he was never going to amount to anything in his entire life. Tears began forming ~~up~~ in his eyes not out of hurt for the words written but for the compassion his mother had towards him.

Then he received his academic diploma from the Swiss federal polytechnic school in Zurich in 1900. In 1905 he was awarded a PhD by the university of Zurich. The same year, he published four groundbreaking papers during his renowned ~~annus mirabilis~~ (miracle year) which brought him to the notice of the academic world at the age of 26.

Einstein published more than 300 scientific papers and more than 150 non-scientific works. His intellectual achievements & originality have made the word 'Einstein' synonymous with 'genius'.

Albert Einstein is famous for his work that contributed to the important advancements in science such as space exploration, applications of light & atomic energy. His theories led scientists to understand new ways to look at energy, matter, space, gravity & time.

Albert Einstein was a physicist & a mathematician by profession & one of the greatest thinkers of recent times, that gave us the vision. Albert Einstein is not known for his inventions but his great theories on which the modern science stands today.

There are many theories, inventions & findings that highlight some of his key contributions:

① Quantum theory of light :-

Einstein's quantum theory of light proposed that light is composed of small packets of energy called photons that have wave-like properties. This theory later led to the invention of the Television which gave technologists a vision to come up with modern day screen devices, such as smartphones, computers, laptops etc.

② $E = mc^2$:-

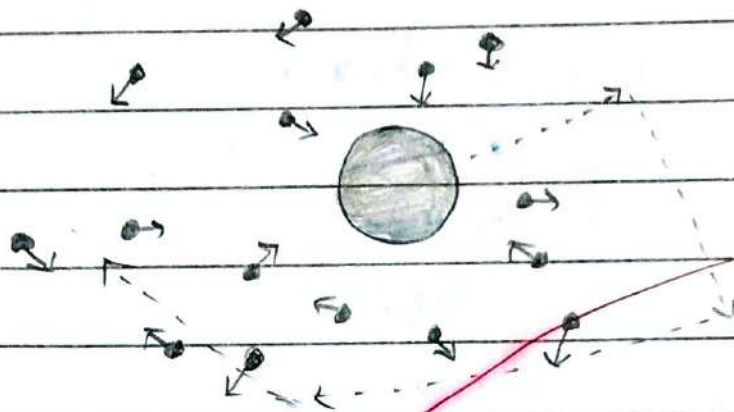
He demonstrated the link between mass & energy that led to the nuclear energy today.

$$E = mc^2$$

Energy is equal to mass into the speed of light squared.

③ Brownian Movement :-

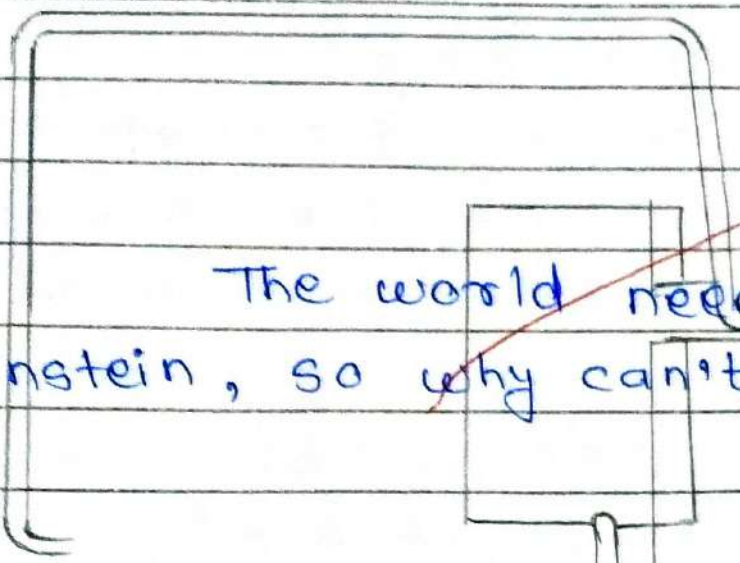
This could by far be the best Albert Einstein discoveries, where his observation of the zigzag movement particles in suspension, helped to prove the existence of atoms & molecules. And we all know how fundamental this discovery is to almost every branch of **science** today.



Brownian Movement

④ Manhattan Project :-

Albert Einstein created the Manhattan Project, a research supported by the U.S., that led to the development of the atomic bomb in 1945.



The world needs more Albert Einstein, so why can't you be one?

“Imagination is more important than knowledge”

- Albert Einstein

However, after learning the destruction the atomic bomb did in Japan during World War 2, Einstein was known to be campaigning for a ban on nuclear weaponry.

⑤ Einstein's Refrigerator :-

This may be one of the least known inventions that Einstein is famous for today. Einstein developed a refrigerator design that used ammonia, water & butane and required almost no energy to work.

Considering the energy demands of the world, companies may realize the importance of cooling & refrigeration without energy & develop this concept further in the near future.

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7/6/2018