

## Test - 3

### Section - B

⑧

Science is but a perversion of itself unless it has as its ultimate goal the betterment of humanity

Start writing from the below line:

In the early 1900's, the United States of America has seen the rampant prevalence of the disease called Syphilis among its citizens. The state of Alabama wanted to conduct the scientific research and analysis on the spread and potential threats of this disease.

Unique  
of this book

The U.S public Health Service funded a study called "Tuskegee Syphilis Study". In this study nearly 400 Negro men were intentionally

given disguised placebos, ineffective methods to scientifically understand the effects of disease. When untreated. By the end of the study the medical advancements came up with a completely treatable solutions, but unfortunately hundreds of African American men died.

Decades later, President Bill Clinton referred this scientific study as shameful and racist and asked apology from the humanity for those actions.

The pursuit of science should be guided by the goals of betterment of humanity. When it is pursued for narrow and evil interests it will become perversion of its true potential. This pursuit also should follow right means for the desired ends. Often science is criticised for all the wrongs but in reality it is our perverted and distorted mindset that made us use science for wrong reasons.

4 Good case argument

Before we delve deep into the essay, let us try to understand, what is science? and What does betterment of humanity mean. "Science" is all about quest for new knowledge. It tries to investigate and understand nature. This empirical understanding leads to various theories and numerous applications.

"Betterment of humanity" refers to those actions and initiatives that will lead to socio-economic and political empowerment of humans across different sections of the society irrespective of race, Caste, religion and gender.

The development of polio vaccine by "Jonas salk" and penicillin by "Alexander Fleming" showed us the true potential of science in improving human life for a better tomorrow. On the other hand invention

of nuclear weapons, biological weapons showed us the perverted side of the science which can destroy entire humanity.

Now let's ponder upon, When and Why Science becomes perversion of itself? and Why science ultimate goal is betterment of Society? It is often said that difficult

times create strong men, on the other hand difficult times also creates evil men.

These evil men are evil enough to distort and corrupt the science for their narrow interests.

<sup>good</sup> This can be seen during World War II.

The imperial Japanese army was accused of

using biological weapons against Chinese soldiers and civilians. Japanese army dropped

plague contaminated fleas which lead to

major epidemic in the region costing thousands

of life.

These kind of inhuman acts raise the question of, what is the ultimate goal of science? Different schools of thoughts have different opinion on this question. Some argue that satisfying human curiosity is the ultimate goal, some say that science is all about understanding the complexities of nature, some say ~~that~~ science is all about developing universal theories and models.

All those schools of thoughts <sup>are</sup> correct to some extent. When we look at a larger picture the aspects of curiosity, understanding nature and formulating theories will lead to various technological developments which will have profound impact on humanity and its betterment. Therefore ultimately science should aim for betterment of humanity.  
good

Now the question is, Can we use any means to get the desired ends of human betterment? As Kantian ethics "say means should be end in itself". Therefore science

will become perversion of itself even it leads to betterment of humanity if we use wrong means to achieve that.  
+ use diverse examples

The un-informed clinical trials on poor people from third world countries in search of creating better medicine cannot be considered ethical. Even though new medicines empower humanity, the unfair scientific methods used in the process will lead to perversion of science.

Not just the question of ends and means. Science also should pass the litmus test of equal accessibility for betterment of

humanity without any discriminations. Unfortunately all the new age scientific innovations such as Smart phones, Automobiles etc are often designed keeping males as their reference point.

When the french company "Carmat" announced about their artificial heart, the entire humanity was elated. But this happiness was gone for the half of the world when they got to know that this artificial heart can fit 80% of males and just 20% of females. This very issue can turn science into a goal distorted and discriminatory version of itself.

The case of Carmat was very clear and evident but in reality the impact of new scientific inventions are not very clear to assess its overall impact on betterment of the humanity. In these cases time will decide its impact on humans.

The new emerging inventions such as artificial intelligence, genetic engineering etc are being criticised for its ill effects and simultaneously praised for the breakthroughs. The overall impact on human betterment can be seen in the later ages. Therefore in this chaos of uncertainty it's the time that decide whether science became perversion of itself or not.

In this process of understanding complex relation between science and betterment of humanity we should also look into the subjectivity of betterment of humanity. For some doing space tourism, colonising mars and controlling nature etc is betterment to humanity but for others getting three meals a day, access to education and healthcare and peace in the world

↳ Good dimension!

is betterment of humanity.

For those homeless in America and poor people in India, space missions like Apollo and Mangalyan might not be seen as advancements of humanity as their perspectives vary.

On contrary to the given essay statement, science is never meant to degrade or destroy humanity rather its due to the perversion of humans we are failing to use science effectively for the overall growth and development. For example the technology of "CRISPR Cas9" <sup>for gene editing</sup> doesn't really hold any demerits in itself. It is upto us to decide on how to make use of it.

One can use it in finding solutions for controlling genetic disorders and the perverted ones can use it to

make designer babies going against the nature. Therefore it is the humans who corrupts the science as science in its core was always meant for better tomorrow.

To summarise, science has revolutionised our world from light bulb to internet. However the ethical dimension of scientific pursuit will decide its relation with betterment of humanity. Therefore we should be conscious enough to use science in such a manner so that it won't become perversion of itself.

The famous line by Dr. Oppenheimer after the conduction of nuclear test was by

"Now I became the death,

the destroyer of worlds"

signifies the situation where science has become the perversion of itself. It is

our moral duty to use the science in the right way for the overall betterment of humanity and to live up to the lines by Neil Armstrong when he stepped on the moon.

"one small step for man  
one giant leap for mankind"

Therefore our steps of science should leap us towards betterment of humanity.

Good Conclusion!