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IB- 66

Roll # 34644

## Can Science Save Us?

### Outline

#### 1. Introduction

(a) Hook

(b) Thesis statement: Science can save us in a variety of ways including health facilities, transportation, mitigating climate change and through its advancement in the form of information technology.

#### 2. Overview of scientific advancements

and their impacts on human lives

#### 3. Thesis

(a) Science has helped us in adopting good governance system

(b) Science has made it easy for people to get knowledge about anything

(c) Advancement in the field of medicines

is just because of science

(d) Helping in addressing the climate change

(e) Helps in human safety measures

(f) Technological advancement is just because of science

(g) Helps in transport sector

#### 4. Anti thesis

(a) Science is helping governments to hide their negligence

(b) In the name of knowledge and education, science is making people dumb

(c) People are still unable to cure from many diseases including AIDS

(d) Climate change and environmental defects are because of scientific advancements in industries

(e) It has provided more threats to human race, such as the invention of nuclear bombs and other weapons

(f) Technological advancement is leading people to unethical way and becoming

a reason of unemployment  
(g) Transport sector is destructing  
the environment so badly as  
nothing else.

## 5. Synthesis

a. Synthesis of 4a, proving 3a to be valid

b. Synthesis of 4b, proving 3b to be true

c. Synthesis of 4c, proving 3c to be valid

d. Synthesis of 4d, proving 4d to be valid

e. Synthesis of 4e, proving 4e to be valid

f. Synthesis of 4f, proving 4f to be valid

g. Synthesis of 4g, proving 4g to be valid

## 6. Conclusion

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## The Essay

There was a time, when people <sup>made</sup> plans to visit their loved ones, to do shopping and to visit their specialist doctors, all in one trip. But due to the advancement in every field of life, people can now visit their doctors in their own cities, can go for shopping and can easily communicate to their loved ones through just a single click. This all is made possible just because of the revolution that science has brought. Science can save us in a variety of ways, including its presence in the form of transportation, providing best medical services, mitigating the environmental challenges and the advancement it has brought in field of information

technology. Today, the involvement of science is clearly seen in every field. With the advent of scientific knowledge and gadgets, it has made easy for people to gain knowledge, to communicate with each other, to travel, and to take and provide health facilities to one another.

The dawn of 21<sup>st</sup> century has been proved to be a century of scientific advancements. Today, almost every human being present on this planet is using science either consciously or unconsciously. From the machines present in hospitals to the food humans take and the clothes they wear are just because of the scientific revolution, which has altered the whole human world. Modern

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years ago, people were not able to travel long distances, but now the latest transportation services are making it possible for humans to go to mass and to the space.

Similarly, people and animals were used to die when any virus or disease spread in their areas, but with the help of medical science, now their lives are secure. Science has not just proved itself to be beneficial for humans only but also for animals and underwater bodies.

The involvement of science has made it possible for humans to adopt a good and effective governance system. Right now, every country is trying to apply the digital and latest systems through which people can become able to elect.

their representative on the basis of his achievements. For instance, in 2024, elections were held in South Africa and people elected Ramaphosa as their new Prime Minister for the third time, just because of his effective governance system which helped people to live a better life and likewise his policies became a source to decrease the crime rate in South Africa.

Today, people tend more to get knowledge through online means, especially after the COVID-19. Scientific advancement and information technology has made it much easy for people to get knowledge and develop their skill according to their interests. According to

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latest consensus, online study system has been much effective for the people living in distant places. Likewise, it also helps people to get their desired skills to earn their livelihood. The scientific involvement in education has not only made it possible for people to learn easily but also it has helped people to earn.

Medicine or medical science, is one of the most important and effective achievement of human history. Right now, the medical science has evolved itself with the time and has proved to be the most beneficial for human existence. Almost diseases can be cured, because of this achievement. With the passage of time, science



is making the medical field so advance that even it can cure and operate a person through the help of robots. Hence, science is not only saving us in the field of medicines but also in other spheres.

Addressing the environmental challenges and providing remedies for the climate change is also another achievement of the science. Climate change is the biggest threat that humans are facing, whereas science is providing its solutions. With the help of climate index and different thermometers, it has now become possible for humans to identify the defects in the climate and to adopt effective measures to protect the planet earth.

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The recent study by University of Ohio, has highlighted that the environment is under great threat and the sea level is rising due to the melting of glaciers. All these problems are identified and a solution to them is provided just due to the scientific advancement. To curb these challenges, we cannot neglect the involvement of science.

Another important sphere, where science has proved itself is the safety measures. Currently, every person is able to adopt such measures which could protect his/her life and property. For example, to protect his house he uses the technology of lock, to keep his money safe he use the banking systems and to protect himself and his family from diseases, he takes

precautionary measures such as vaccines. So, it has proved that science can also help human to protect themselves against anything <sup>that</sup> they think harmful.

The biggest achievement of science is in the field of technology and information technology. In contemporary era, technology is widely accepted and used by everywhere in this world. It has not only proved itself to be effective but has also made it easy for people to interact with one another. People from end of the world can contact to the people of the other end. Likewise, the sharing of data and information between countries and organizations is just a single

click for

Another important sector where science has proved its abilities to ease the life of people is the transportation sector.

Trains, airports, railroads, different types of personal vehicles etc are the scientific advancements.

Right now, science has made it possible to travel and to transport goods through roads, seas and even through air. It is not just making the lives of travelers easy but it is also providing economic benefits to the countries through their trades.

Although science has helped the governance systems of countries but it also provides a mean for the rulers to hide their

negligence and ineffectiveness. For example, if a political leader is corrupt and he knows that he will not be elected next time, he simply adopts such policies and takes measures that could hide his ineptitudes, and people will tend towards him.

This includes policies like, technological parks, gaming rates, free medical service cards and so on. So, it is not a blessing for the governance system.

Likewise, In the name of online education and knowledge people are becoming more dumb and unintelligent. According to research by University of Tulsa (2023); more than 56% of people who prefer and are using online platforms for education are found to be dull minded. They were not even able to solve simple mathematics.

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So, it proves that the involvement of science in online educational purposes is not a healthy action but it is disturbing the minds of people.

Even with the most advanced and scientific involvement in medical science, AIDS and other viral diseases are still out of the reach to be completely cured. America, with the most advanced technology and medical field is not even able to curb this disease. There are thousands of people in Florida, California, Texas and New Jersey who are infected with AIDS. But they are unable to be cured and their final stage is death, who ends them with AIDS. Hence, science that is considered a key element in society has failed to protect the humans affected from diseases.

In this age of industrialization,

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Science has provided the reasons for the environmental degradations. Science has provided a framework for industries to grow and to pollute the air. It (science) is main reason behind the average increase in temperature of the earth which effects the glaciers and become a source of floods and other environmental problems. Science has not provided itself really beneficial for the environment but it is has become a source of destruction for the environment.

In the name of effective and safety measures, science has handed over nuclear, biological and chemical weapons to the humans. These weapons are not a source for the protection but rather it is a source of

destruction for the whole world. In the name of security, every country is trying to acquire and develop more weapons, causing a threat to the the humanity.

Scientific advancement in telecommunication and technology is providing a great threat to the information and data of their users. Every platform who has data of their users, is selling that information to other parties and even on dark web.

Humans are enjoying this scientific achievement but it causing more harm to them as compared to what they are taking from it. For example, consider the case of Instagram, a free social media platform. It hears our voices and shows contents related to our



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Interest, such as showing different ads and providing other unethical apps. Similarly, with the advancement of chatting apps, people are more likely to communicate in a wrong way and the number of scammers are increasing everyday. So, it has provided not a benefit to the people but has provided a platform for evil minded people and organizations.

Another area where science is causing destruction to the human existence is the transport sector. Millions of vehicles and other transport equipments are destructing the environment and the whole ecosystem. Let us consider the case of Smog in Pakistan. According to Ministry of Health and the Department of Transport, vehicles were the main reason behind the smog as they continue to

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emit carbon dioxide and contributing 41% in the degradation of air. Hence, it is proven that science and its development has provided with a complete path to disrupt the whole ecosystem and the existence of human on this earth.

Government and political persons might hide their incompetence through the scientific means but a complete check and balance can be put to curb them and to apply the rule of law. For example, the ~~involvement~~ involvement of lie detector in offices and courts. Similarly, using AI for the purpose of correct information and future planning can be helpful.

Many <sup>people</sup> ↑ thinks that online education and skill development has made humans dumb minded.

But no one can reject or deny the fact that through online platforms, the number of enrolled students in educational institutes ~~are~~ are increased by 14%. Moreover, according to World Economic Report (2024, Oct) the global GDP has increased 3.4% due to online businesses and platforms. This clearly shows that the involvement of science has helped the human race in education and to earn through their skill development.

It is true that AIDS is not fully curable disease yet, but other global diseases such as polio and COVID-19, which effected the whole globe were cured and eradicated just due to

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medical science. Moreover, more than ~~one~~ 9000 people ~~are~~ were cured in one day in Latvia when the corona was on its peak. This all has become possible due to science which helped medical field to grow with the time.

Another group of people argues that industrialization has destructed the environmental fabrics. This is not true, because it has provided not only the frame work of industries but it has also suggested the measures that must be followed to protect the environment. For example, using chimneys to reduce the CO<sub>2</sub> emission and to plant more trees near the industrial areas to reduce their impact on the

surrounding area and the environment.

According to the perspective of liberals, science has helped countries to invent atomic bombs and other destructive weapons, which are pushing humanity to the end. This is not a valid point to consider the scientific inventions. With the development of such weapons, science has also developed such systems that can protect people against any attack. Likewise, education which provides moral values to the humanity is also spread to the world through technology and can help the nations to behave morally.

It is never being anything bad or good, but it is the use of it who makes it good or bad. Some

is the case with information technology. It is not wrong to say that it has negative effects and it is also a source of unethical activities. But its positive side can not be neglected. It has provided humanity with all those things which were taken to be supernatural in the past. To mitigate its negative use, a number of policies could be implemented, such as laws related to: online fraud, data stealing, cybercrimes etc. By applying such laws and policies we can not only secure the privacy of people but can also provide them a <sup>secure</sup> piece of mind.

Another area which is highly criticized by many people is transport sector. There is false claim that it had affected the ecosystem

globally, but with the advent of 21<sup>st</sup> century, a transformation has been brought in this sector. Every country is now producing more and more electrical vehicles to overcome the emission of carbon dioxide through automobile industry. According to The New York Times (2024) China alone has produced and exported 55% of electric vehicles which emit 0% carbon dioxide and other toxic gases. Likewise, Japan has transferred its automobile industry to EVs. Similarly, Scandinavian nations has also imposed a huge tax on vehicles so that they could protect the environment. Hence, science has not affected the transport sector to become toxic for people but it has helped them to protect the environment and the natural resources.

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To conclude, science has provided a complete outlook and framework for whole humanity. The involvement of science in the field of education, health sector, economics, information technology and transport sector has been proved beneficial for all the humanity. Although it has <sup>imposed</sup> some negative effects but its positive side can not be neglected. In fact, it can ~~save~~ ~~us~~ by providing the facilities, that we all need. Hence, science is no less than a miracle and it will keep saving us by advancing its capabilities throughout the time.

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