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Can Science Save Us?

A. Introduction Outline

1. Threats faced by humanity in contemporary world

2. Science can be a saviour for humanity

3. Thesis statement of

B. Science: a Saviour to Humanity

C. How Can Science be a Saviour?

1. Biodiversity can be protected through scientific methods, including flora and fauna—a basis human need under threat

- Scientific identifications of threats faced by various species

- Scientific calculations of endangered species and derivation of steps for their protection as well as survival

2. Climate Change—an existential threat to mankind, can be mitigated by using scientific knowledge

- Recognition of climate change is in itself a scientific research

- Calculating carbon foot prints and decrease in emissions—only possible

through scientific methods

3. Food crisis, one of the major threats humanity is facing today - can be dealt in true spirit through scientific phenomena

a. Scientific technologies and algorithms can be used to highlight the areas which need food

b. Scientific advancements can be utilized for generation of more sources of food including better agricultural methods having advanced scientific technologies installed

4. Natural disasters, take thousands of lives every year, can be predicted and made less harmful through science

a. Earthquake predictive technologies - scientific research

b. Floods - predictions, managements for protection of mankind by using scientific technologies

c. Managing climate induced refugees can be better done through scientific means

5. Education - a basic human need for survival, can be achieved by ~~utilized~~ utilizing scientific facilities

a. Scientific devices including computers, laptops, mobiles, having technological networks can make education advanced and easy for survival of mankind

b. STEM - Chinese model, a case study for science as a mean to education for better survival

6. Health is a significant ingredient for the survival of humanity, can surely be protected, improved and secured through scientific knowledge

a. Diseases can be diagnosed, treated and prevented by scientific research and technologies

b. Covid-19 - a case study to prove

how a vaccine generated by scientists, saved people from fatal pandemic

7. Artificial Intelligence (AI) can be an ultimate saviour for humanity in various prominent ways

a. AI in security - used by global powers

b. AI in medicine - a blessing for mankind

c. AI in agriculture - improved food generation and management of crops

8. Security threats including 5th generation warfare and terrorism can be better dealt through scientific means

a. Analysis of terrorists organizations using scientific technology

b. Using GPS systems, RADAR for security purposes

c. Gain of power for secure future through scientific developments - a

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Chinese model

D. Murders in the lobby of Science to be a saviour for Mankind

1. Science can also be fatal for humanity - uncontrolled use of technology

a. Civilians deaths in Gaza -

result of failed algorithms by

AI - used by Israel - Al-Jazeera

Report

b. Overdependence on social media

exacerbates anxiety and depression -

increase suicidal ratios - The USA

a Case study

2. Changing world order - a technological tussel going on among global powers - raised turmoil among human beings, an existential threat to humanity because of scientific advancements

3. Many scientific advancements are significantly increasing gender inequality

a. Biased and discriminated

results shown by AI

E. Recommendations to Make Science an Ultimate Saviour for Mankind

1. Controlled and administered use
of scientific technologies to
avoid mishaps related to
human safety

2. Managed and-certified use
of AI only for positive
purposes to benefit humanity

3. Global cooperation in regards
to science for betterment in
its use for humanity

F. Conclusion

Essay

During 19th century, world saw a significant shift from its traditional lifestyle, in the form of scientific revolution. After that period of time science has taken over every field of life including security, health, food, entertainment, economy and education along with other. Similarly, world has also seen progress in the development, growth prosperity and well-being of mankind because of science. For example, security threats to humans including climate change, terrorism, food crisis, economic crisis and other non-conventional ones, all can be treated well through scientific methods. In contemporary world, safety of human beings can be directly related to the scientific developments. Moreover, science play critical role in all safety threats faced by mankind today. Starting with, climate change, an existential major threat to mankind.

these days can be mitigated through science. From calculations of carbon foot prints to the shift towards renewable energy resources all is dependent on science. Furthermore, world sees natural disasters, risk to human survival, every year which take many innocent lives. And scientific methods of prediction of these disasters as well as better management respectively through scientific means can protect people from these disasters and make them less hazardous for humanity. Along with positive role of science in human safety and protection there are few potential risks as well. These include, uncontrolled use of technology in wars and daily life. Using science negatively can surely be dangerous for human beings. But this factor can be solved by using it carefully and in controlled manner because science in it self cannot be an actual threat, tho it is people who use it. In a

nutshell, science can be an ultimate saviour for mankind in various aforementioned ways, just with focus on responsible and careful use of it for the welfare of humanity.

Science can be a saviour of mankind all over the world in various possible ways. In contemporary times, humans are facing significant threats to their existence. But science can be seen as their saviour in all threats. Climate change is one of the critical problems world is facing today. But humans have been able to detect this threat by using scientific research. For example, ozone depletion played a role in raising temperature of the globe. And science makes people understand the reasons behind ozone depletion, which are gases emitted by human beings in the atmosphere. Not just in the diagnosis of the problem, but science also helps in drawing solutions. Likely, science has provided human beings with the solutions to mitigate climate

change. The solutions include, shifting towards non-renewable energy resources to decrease carbon foot prints. Hence, science can ~~not~~ save humanity! in various ways from many unprecedented threats of a contemporary world.

In following paragraphs, it is proved that how science can be a saviour for humanity in different considerable ways.

To begin with, the basic human need for survival, biodiversity, which is facing significant threats can be protected and improved by scientific methods. All creations compliment each other in various ways. Similarly, human beings also take advantage from many other species of animals as well as plant for their survival. But because of the reasons including climate change, plastic use and extreme weather events, many species are under threat now a days. Which can cause a food insecurity as well as breakage ^{down} of natural cycle of

survival for humans. So, scientific studies including recognition of threats, calculations and research of endangered species, impacts of these species on mankind as well as solutions for protection of them play significant role for maintenance of natural cycle of survival for humans. For example, because of changing climate wheat ratio in terms of its production and yield has been decreased. This is the study done by scientist by knowing the impact of weather on wheat production. Similarly, technologies are used including Global Positioning System (GPS) and RADAR for the detection and presence of species in different regions of the world. Hence, science can play significant role in the protection of biodiversity for the survival of humanity.

Similarly, a threat to human safety these days is climate change, and it can only be mitigated by utilizing

scientific knowledge According to The United Nations report world has seen surge, in its temperature; of 1.5°C since industrial revolution. Along with the rise in temperature there are other extreme weather events including heat waves, melting of glaciers rise in sea level and floods that could be witnessed in almost all regions of the globe. This threat of climate change can be mitigated through science. Such as, emission of carbon dioxide, and carbon monoxide, oxides of sulphur, nitrogen as well as chloro fluoro carbons are the reasons of climate change as they deplete ozone, as per scientific studies. Hence, these emissions can be controlled by implementing policies that are sustainable for environment. Science shows the path of renewable energy resources as it reduces the emissions of green house gases from burning of fossil fuel. Similarly, other sustainable practices are also provided by scientific research. Not just this, but also

maintaining and dealing with ongoing climate crisis science play significant role. From managing climate induced refugees to designing sustainable environment for the survival of mankind all can be provided through scientific means. Hence, science can be a saviour for humanity from existential threat of climate change.

Moreover, health issues have been there for mankind as their enemies, but science ensures a better health for mankind. During the time of Covid-19, science helped humans in various ways to fight and win. During the time of pandemic, calculations of the impacts of the disease through technology and awareness campaigns through technology played significant role for the better understanding of the problem. Notwithstanding, the vaccine generated by scientist using biological research practices turned the table for humans to deal with that

virus ~~to~~ namely, Corona. Similarly, various other scientific facilities are provided to human beings for the betterment of their lives and safety purposes, including diagnosis of diseases ~~like~~ such as cancer diagnosis, treatment of kidney failure in the form of dialysis and blood donation systems for thalassemia patients are all the wonders of science for the better survival of mankind. Therefore it could be concluded that, science can be a saviour for humanity, in terms of health issues as well.

These were the evidences to show that science can be a saviour. ~~Now~~ Now, the other side of the picture is shown here-under in the form of hurdles faced by science to be a saviour for humanity in true essence.

To begin with, uncontrolled use of technology in various aspects of life can make science ~~for~~ fatal for humanity. For example, in the on going war

between Palestine and Israel, Israel has used technology for analysis of the potential places of fighters to attack, but irresponsible use of technologies lead into the deaths of innocent civilians as per Al-Jazeera Reports.

But science can only be fatal because of the mind behind it.

The hands using it needs to be responsible and careful. As it could be concluded that science in its self is not dangerous but ~~the~~ its uncontrolled use could make it a threat for humanity.

Similarly, ~~or~~ the ongoing political turmoil between global power is exacerbated because of scientific warfare. All global powers are in competition to gain hegemony by becoming more scientifically advanced including the United States of America (USA), Russia, China and India.

So, if this scientific warfare kept on going in future, then ~~the~~ it would

be a unprecedented threat to humanity. But it is again not the fault of science. It depends on the way humans how are they perceiving it in their daily lives. In a nutshell, science can be the reason of world war if the global powers do not stop to make it a threat for one another.

In conclusion, science can be a saviour for humanity in many aspects. More specifically, on going threats to mankind can all be dealt better through scientific means. But the controlled use of science is must. When it is a saviour it brings certain threats as well. However, these threats are way less than the benefits it offers for the safety of human beings. So after mitigating those threats science can safe save human beings from all existential threats of contemporary world. Hence, it could be said that, a safe and secure future of humanity depends on science.