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ESSAY

Can Science Save Us?
Outline

1. Introduction:

Thesis statement: If the people of primitive times now re-appear in today's world equipped with scientific miracles they will die with wonder seeing such advanced world.

2. What is science? Can science save us?

3. How can science save us?

3.1: Science can save us through education in science and technology.

3.2: Science is a saviour in form of technology and infrastructure.

3.3: Science can save us through medicine and surgery.

3.4: Artificial Intelligence is another miracle of science - helping us.

3.5: Science can improve administration through e-governance.

3.6: Industrial Revolution is another development of science - saving us in many fields.

3.7: Climate upgradation and pollution control through science.

3.8: Increased productivity of commodities with the help of science.

3.9: Science playing its role in research and development.

3.10: Mitigating energy crisis by producing clean bio-fuels.

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3.11: Disaster Management system employing science.

3.12: Space-race, CPS system using science.

3.13: Science has made our world a global village - connectedness.

4. Conclusion.

If the People of ancient times—when simplicity prevailed, they appear in contemporary times, they will be surprized to bite their hands seeing all the miracles and wonders of science. Science is empirical knowledge based on practice. It is saving mankind in many ways such as in the field of science and technology, infrastructure, medicine, artificial intelligence, e-governance, pollution control, climate upgradation, increased productivity, mitigating energy crisis, GPS and space-race and also disaster management systems. Our lives owes to wonders of science in today's modern age.

At First, we have to understand what is science. Science is basically a knowledge—empirical knowledge.

Science uses experiments and practice to get knowledge. Can science save us — it is an important question in today's perplexing world full of chaos. In my opinion science can save us in more than hundred ways. You cannot name any field which is beyond the circumference of science.

We can prove that science can save us in many ways some of them are discussed here. At top the most important miracle of the science is in education field. Science has improved our education system and making more productive, skillful and intellectual minds using science labs, computer labs, tabs, computer and new reseaches. During Covid-19

pandemic science saved the students through online studies.

It helped in increasing access to knowledge and also increased the literacy rate. Current literacy rate of Pakistan is 62.8% according to digital census 2023. Students can also access information about different institutions through web-sites and online portals saving much time.

Science is a saviour in form of technology and infrastructural developments.

The world has reached to moon using technology of science. This technology has eased our lives in the form of vehicles - airplanes, railways buses, cars and bikes. The technology has also made womens' domestic life easier

by creating juicers, blenders, refrigerators, air-conditioners, dish-washers, washing machines and vacuum cleaners. Science has so much influence in our daily lives that one could not imagine life without these science employed appliances. In case of infrastructure our educational institutes, banks, hospitals, markets, homes, underpasses and flyovers are saving us and also our time - making life beautiful.

Another miracle of science saving the previous lives is medicine and surgery. In primitive ages, people have to suffer disease throughout their lives till death and pandemics were so-common that took millions of lives in ancient times. But now science

has revolutionized the medical field making our lives worth living. From the discovery of vaccines by Edward Jenner to the third generation anti-biotics, hormones - growth hormones, medicine of every diseases, diagnosis of the diseases, its treatment through medicine or surgery all owe to science. The diagnostic tests are all due to science and technology. Medicines are formed using scientific knowledge, vaccines are now prepared through bio-technology in less time without using living organisms - goats and rats. Science has played important role in the treatment of cancer in the form of chemo-therapy. MRI and X-rays are helpful in diagnosis of a disease.

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Today's emerging science is **artificial Intelligence**. It is actually using the abilities of man with combination of technology. It has incorporated in our lives so-much in no time that we are not able to believe it yet. **Japan** has introduced Artificial Intelligence equipped **hospital** where along with surgeries, pregnancy detection, gender determination so many tasks are done by **robots**. In **Karachi** pakistans have introduced a teacher equipped with artificial intelligence to enhance the educational capabilities and efficiency. There are some **robotic waiters** in resturants. **CHAT GPT** is another major example from our daily lives.

Public administration can be improved with the help of science by incorporating e-governance. e-governance can improve the efficiency and effectiveness of civil servants by keep check and balance.

Online portals should be available for every public institution showing their performance and accessible to public. public departments can be made assessable to masses with their websites. **Narendra Modi** once said the key to good governance is e-governance.

The digitalization of all public institutions can be helpful to eliminate corruption.

The most important and eminent wonder of science is **Industrial Revolution**

of Great Britain. Science revolutionized every field of life and made the reason of revolution.

This Great Revolution changed agrarian economies into industrial economies, made transport easier, connected the world, enhanced the productivity providing fundamental facilities to human beings.

Climate up-gradation and pollution control is another big saviour step of science. The world is facing pollution and climate change due to human activities. But the pollution can be reduced by using science and its knowledge.

The smoke emitting industries and kilns are using zig-zag technique to change the hazardous exhaust into less toxic exhaust material. Similarly

the bio-degradable fertilizers, pesticides and plastics are now been used to lessen the environmental pollution. The auto-mobiles are using catalytic converters to lessen the pollution by making exhausted smoke less harmful, so that we can avoid acid rain, smog and green-house effect. Hence, science is helping us in upgrading the climate.

The science has made our lives easier because it has increased the productivity rate of commodities.

In last few decades it was a time consuming task to collect vaccine from animals and consuming also their lives. Now-a-days with the help of bio-technology

and **fermentation** the production has increased to tons of amount in less than a day. Vaccines can be prepared with the help of bio-technology and micro-organisms in no time.

The increased productivity of commodities such as food, beverages, medicine, clothes is due to science and technology.

Research and development

can lead to wonders and it owes to science. Science is being helpful in providing facilities and researches institute for further developments. The knowledge and technology required for development is provided by science. The research in field of technology, production, information, innovation all is dependent on science and its derivatives.

Energy crisis is the major evolving issue generally in the world and in particular in Pakistan. Science is being employed to resolve the energy crisis. Pakistan is using **hydro-carbons** - oil, gas, coal for its energy consumption but these fuels are carbon emitting creating pollution, smog, acid rain and green-house effect. Science helped us to mitigate the energy issue by providing **Bio-fuels** - bio-diesel and bio-gas. These are the renewable and **clean energy** resources of energy production. With the help of bio-fuels energy crisis and environmental pollution both issues can be tackled with the help of science.

Our world is liable to disasters. To prevent or handle the disaster science can be hired. Disaster Risk Management is another use of science which can actually save our lives, infrastructure, finance and world. Disaster risk management is a system employing science in which the prediction of weather, earthquakes and floods can be announced preventing the major losses by adopting pre-disaster measures. After the disaster the science and its technology is used to rehabilitate, restore the life. The flood of 2022 is a major disaster in Pakistan - engulfed hundreds of lives, leaving millions abandoned. After the flood the scientific techniques were used for rehabilitation and restoration.

In contemporary times, there is a **space-race** among the countries for exploring the universe. U.S.A, Russia, China, India, Japan and Pakistan has launched rockets to moon for knowledge and data gathering.

Artificial satellites are deployed in space for weather prediction, communication, broad casting and monitoring. **GPS** - global positioning system is miracle of world using satellites it tells **maps** and locations and position of any object and anything happening in the world is predicted with the help of science.

The last but not the least miracle of science which saved us and connected us with ~~an~~ world through

communication. The internet, websites and social media apps have made our lives worth-living. The world has become a global village - the height of interconnectedness. One can see, talk and share with other person through online communication in other part of the world. Now you are at the distance of just one click. Any information can spread in the whole world within seconds due to our science.

In a nutshell, we can say that science has really saved our lives and made the life worth-living by improving our every field of life from education to research,

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medicines to vaccines, infrastructures
to industrial revolution,
e-governance to increased
productivity, Energy crisis
to communication. Every
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