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Essay writing on “Satellites a boon”

We live in the world of smart cars and robotic vacuum cleaners. Over the years, man has manipulated technology to simplify life and make things convenient. Efforts have also been made to explore what is here and beyond. Our collective curiosity to learn about the mysteries of the universe has taken us to deeper sections of space. Surrounded by smart gadgets, we may mistakenly overlook a unique technical achievement that although not visible to us, plays an important role in many activities we perform!

This invention is the satellite. It will not be incorrect to say that satellites are one of the greatest blessings that mankind has envisioned!

An artificial satellite is man-made equipment that is designed to be launched into orbit around our planet.

This is done using rockets. There are currently thousands of active satellites orbiting the Earth. The size, altitude, and design of a satellite depend upon its purpose and mission. This allows for the usage of satellites in numerous ways, like to study the Earth, and other planets, to help us communicate, and even to observe the distant universe. Satellites can even have people in them, like the International Space Station!

These satellite systems have led to drastic changes in the world we are living in today. Gone are the days when one had to rely on maps or stop at every new intersection to find the way to one's destination.

Today, with the mobile-based 'Maps' application, it is possible to receive directions, real-time traffic updates, and keep a tab on the trip duration- all these features wrapped into one service. This has been made possible through GPS- Global Positioning System that relies on satellite systems to provide the user with required location updates. However, this is only one of the many applications of satellite technology that has greatly simplified a routine activity! Not only do satellites help with navigation,

but they also help us stay connected with people and keep ourselves updated with the latest happenings around the world. From military bases to the cinema hall, television sets to the internet services, agricultural advancements to the weather forecast - satellites have applications in all these fields.

Another way in which satellites have proven to be a boon for society is through the role they play in weather forecasting. They can also be used to monitor movements of natural phenomena like hurricanes and blizzards. This makes it possible for governments and people to be prepared for such catastrophes beforehand. Satellites have provided a never-ending list of advantages!

Since their development and deployment, satellites have proven to be a boon for society. As technological advancements reach more developing countries, and more people rely on smart devices, the use, and importance of satellites is only going to increase.

However, as with everything, even satellite systems have certain disadvantages. Cost is a major factor. Developing satellites is expensive. Sending them into

space is more complex and sophisticated. This is one reason why only a few nations globally can send satellites into space. Satellites are expensive even when they have successfully launched into space. In more cases than one, even after proper planning and preparation, such launch missions can fail. Therefore, a lot remains to be done to improve the success rate as well as to make space more accessible to different nations. Then there are also issues with signal reception, weather changes, or sunspots, which can interfere with a satellite's work and make its operation difficult. Compared to the many advantages of satellite systems, these disadvantages are small and can be worked with more research in the future.

British writer Arthur Clarke said that "Any sufficiently advanced technology is indistinguishable from magic" Looking at the magic of satellite communication, the far-reaching applications, and the million lives that benefit from its usage, this statement holds true. As greater interest is taken in wireless communication, remote technologies, and outer space, and more investment is made in improving our understanding of these concepts, the magic of science

will only become more powerful and beneficial for the world at large.