



THE QUEEN'S
COMMONWEALTH ESSAY COMPETITION 2019

GOLD AWARD



2019

This is to certify that the Royal Commonwealth Society, on
recommendation of the judges, has awarded this certificate to:

Iman Ijaz



Dr Linda Yueh
Chair

Dr Diana Owen OBE
Chair of Junior Judging Panel

Vicki Wienand
Chair of Senior Judging Panel



THE ROYAL COMMONWEALTH SOCIETY

"We all are connected by the internet"- Stephen Hawking

Internet is a global system of interconnected computer networks that use the Internet protocol suite (TCP/IP) to link devices worldwide. It is a network of networks that consists of private, public, academic, business, and government networks of local to global scope, linked by a broad array of electronic, wireless, and optical networking technologies. The internet has provided the mankind with many facilities and astonishing features which also enable us to communicate over long distances complications.

Numerous number of years ago (before internet came to existence), people would face difficulties in communicating with others. There were landline phones which were used by the people who lived in the urban areas but still faced difficulties as the connections were not that strong, even the mobiles which were used in the past took almost a day or two to send a text message . Additionally, handwritten letters were also used but this method of conveying information would also take a number of days. This made the relations between people and the connections between countries a lot difficult as the communication methods were not that efficient.

As years passed by, a new invention came to existence called 'Internet'. As you might expect for a technology so expansive and ever-changing, it is impossible to credit the invention of the Internet to a single person. The Internet was the work of dozens of pioneering scientists, programmers and engineers who each developed new features and technologies that eventually merged to become the “information superhighway” we know today.

Internet is life-changing for almost all of us but instead of just taking it as a form of entertainment and using it for time-pass, all of us could use

it for better purposes. These days, everyone has internet connection in their houses, which can be used in many ways especially in the form of communication and delivering information from one part of the earth to the other.

Many companies are employing people from other countries for jobs which involves every formality using the internet, even the interviews. The companies conduct interviews using various forms of social media to examine if the person is eligible for the particular post that the company has advertised for. If the person is qualified for the post than he/she is given accommodation and all the facilities with good amount of salary in that particular country with the help of internet.

Also, through the help of different social medias, people are able to discuss their problems and find solutions by discussing it with the people who are undergoing similar worries as them. Even if a child of a particular family is miles away, the members can still be in contact with their loved ones.

When it comes to how countries can improve from their current position is that they can use various forms of technology to measure their economic development over the past years and the amount of things or resources they lack to fulfill their needs and keep everything in an organized manner. If a country has excess of resources then they could trade it or provide it to the country which requires it more. This could help build better connection, understanding and trust between the countries which can be beneficial in difficult times.

At least once in our lifetime we have had a journey on an airplane. We all must have wondered how the pilot keeps in contact with the airports on the land right? Well They work by recognizing radar frequencies as they interact with the plane. The transponder alerted by the radar

responds by sending a signal of its own back to the tower, which identifies the aircraft. Today Air-to Ground communication has evolved to the point where pilots no longer need to be in the plane to fly it.

Submarines are down there deep in the water to protect us and other submarines which discovers new creature underwater but they do need to be in contact with the stations on the ground so immediate help is sent when any emergency occurs. Although communication with submarines can be difficult because radio waves don't travel well through electrical conductors like salt water. So they raise an antenna above the sea level, then use ordinary radio transmissions. However, a submarine is most vulnerable on the surface.

Another amazing invention by man which makes everyone's lives easier is GPS. GPS allows the user to know where a place is located all over the world. GPS satellites circle the earth twice a day in a very precise orbit and transmit signal information to earth. GPS receivers take this information and use triangulation to calculate the user's approximate location.

GPS is also very useful for the military. They are used for navigation by both the military and civilians. These 24 main GPS satellites orbit Earth every 12 hours, sending a synchronized signal from each individual satellite because the satellites are moving in different directions, a user on the ground receives the signals at slightly different time.

Video games also require internet. It has scientifically proven that playing video games actually improves student communication skills, resourcefulness and adaptability and may have a role to play in higher education. This supported the hypothesis that playing video games can improve self-reported graduate skills.

Engineers, scientists all are still developing the internet. There are so many new things which will be coming to existence by the help of Internet. Many robots have been invented which ease the life of humans in various ways.

The Robot Barber has arms coming at you with electric razors. The machine is the Multi-Arm Unmanned Ground Vehicle (MA-UGV) from Intelligent Automaton, Inc. and is designed to do many different tasks with its three arms, each with multiple sensors including cameras. The volunteer in this video works for the company, and is fully aware of the robot's capabilities and safety features, if not its talent then for hairstyling.

The Internet is still being developed by many people as many people are pursuing ICT/ Computing as their career and learning more ways to improve the technologies.

Thank You