

UNIT 66 – UPSC - Application of science and technology

In present global scenario, application of science and technology is increasing at great pace. Global populace depend on technology and they use various technologies to accomplish specific tasks in their lives. Today, people have various emerging technologies which impact their lives in different ways. Technology is being implemented in almost every section of lives and business structures. Therefor it is important to embrace it and learn how to use technology in business and lifestyle. Due to high speed development and rapid changes in world, technology will be changed. So it is better to go with latest trends and new emerging technologies and learn how to embrace and use them in daily life.



Numerous application of technology is mentioned below:

I. Use of Technology in Business:

Technology has imperative role in enhancing business and escalate profit. Today businesses can save money by using technology to perform certain tasks. When people compare the amount of money spent on hiring an individual to perform a certain task and to guarantee delivery on time, it is totally expensive. When it comes to technology a small business can scale out and deliver more with less human resource.

II. The Use of technology in communication:

Previously, communication was limited to letter writing and waiting for those postal services to deliver your message. In current situation, due to onset of advanced technology, communications process is simple. Now people can draft a business message and email it or fax in a second without any delays, the recipient will get the message and they will reply instantly. Also technology has made business meetings so simple, with the introduction of video conferencing, company can well organize business meeting and take quick decisions. Now with this video conferencing technology, managers can be in the meeting in a virtual form and engage with their partners directly. Also technology has made it simple to get feedback from clients instantly. This has been aided by the

introductions of online business to consumer portals like "Facebook Business Pages". As a business, people can get responses and suggestions from customers via social network portals. Business person or Individual has to create business page and promote it, so clients will always post what they want on wall and suggest areas of improvement. This will save money on direct mail surveys and other means of getting information from consumers.

III. Use of technology in human relationships:

With the globalization, liberalization and more trade at international level, people are more interacting and developing human relationship to enhance business. These days a lot is demanded so everyone is busy to have time to find a relationship. So technology has also filled this part. With advanced technology, people can connect and meet new people while at work using social network technology. They can also use technology to find a new date without living their work. Presently, people use mobile phone apps to meet and connect with new and old friends. Social networks like Facebook.com , Tagged.com have played a big role in connecting both old and new relationships. However, virtual relationships are not as strong as physical relationships.

IV. Use of technology in education:

Modern technology has made major change in the education field. With the invention of technological gadgets and mobile apps which helps students to learn easily. Now-a-days students can access a full library via a mobile app on any smart phone or ipad. Before inventing this technology, students had to go to physical libraries to get the information they need. Teachers can also use modern technology to teach their students.

V. The Use of technology in agriculture:

Latest technology and scientific invention has profound impact on the production of agricultural products. With the invention of Mobile App for agriculturalists, they can use an App like "FamGraze" to work faster and be more accurate while in the field and off the field. For example, "FamGraze" app will help a farmer manage their grass more effectively by suggesting the cheapest feed for their livestock. This app will calculate the amount of grass for animals have in the field. They will need no paper or any spreadsheets to do all this. Technology has changed the agricultural industry by replacing human labour with machines that are operated or controlled by people or other machines. In the agricultural industry, productivity is a key factor. If production is high the farmer will make more profits so technology has helped farmers replace the conventional ways of farming with machines that can do the job in time right from the day of planting to the day of harvesting.

VI. Use of technology in banking:

Banking sector is advanced due to various technological developments. Now electronic banking is used to transfer money and it eases customers. The invention of VISA ELECTRON has made it simple to transfer more money without having any fears of getting robbed on the way. Customer can buy anything with a Visa Electron card therefore there is no need to carry cash and become a victim of thieves. Banks use the Visa neutral network software to spot fraud and determine which of their customers might default or go bankrupt. This neutral network is very good at spotting patterns, so if customer's profile looks like that of people who have defaulted, the bank will take action and save them from getting robbed.

VII. Use of technology to control and harness natural forces:

Natural forces affect and upset human life and daily economic activities. For example, floods have devastating impact on farmland and homes. They carry out fertile top soil and disrupt the growth of crops. Also fires burn buildings, crops and forests which affect human life. However, modern technology has enabled humans build large dams which can harbour excess water and use that water to generate power. Also fire is tamed to heat our homes and process industrial materials. Wind is being used to generate electricity. There are techniques to convert solar energy to power which is being used in homes and businesses. All this is a result of using technology to control natural forces.

VIII: Use of technology in transportation:

Transportation is the mainstay of people to move from one place to another. Technological progression has revolutionized transport services. Both businesses and individuals have benefited from the new technologies in the travel industry. Time is money, so people must need fast and efficient means of transport. People use advanced transport means like cars, trains, and airplanes to go to work, to transport goods, to go shopping, to visit friends and families and so much more. However, the transportation technology has been changing since 1800 to the recent years.