

COMPUTER FUNDAMENTALS

Unit 6. Information technology for benefits of community

Topics Covered

- Impact of IT Ethics and Information technology
- Future with Information Technology.
- Assignment

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Ethics And Information technology

• Information technology is facing ethical challenges and it is upto the IT experts and ^{their} users to be ready for these challenges.

• Basic five ethical challenges of IT are:

i) Security: With the ^{increase} use of internet, IT users are exposed to high risk of fraud and conflicting interests.

ex:- Online banking, paytm etc (hackers can hack)

ii) Privacy issues: There are so many ways by which our privacy is exploited by IT like:

a) Use of internet webcams

b) Use of social network.

iii) Copy infringement: IT has made it easy for users to access any information at any given time. However, many original creators are losing their credibility of their works as users can access and share data with friends.

ex:- Free music and file downloading sites.

iv) Increased pressure on IT experts: As IT systems are running 24x7 and several big organizations operate 24 hours, it puts pressure on IT experts, which results into stress and work overload which sometimes results into imperfection.

v) Digital divide: IT is slowly creating digital divide as developing countries may face difficulties of enjoying IT same as developed nations, and to meet this difference labours and users need to be trained which is a bit costly process.

• Future with Information Technology:

- We are living in the world of IT. India has become one of the major IT jobs capital.
- IT industry has emerged as an asset to Indian economy. Chennai, Kolkata, Mumbai has emerged as IT capitals whereas Bangalore is known as silicon valley of India.
- IT sector has made a major contribution in employment as well.
- If we look at the future, we can be sure that the IT boom is not going to subside any time & soon.
- Technology over the next five to ten years will be radically different with great improvements in increasingly shorter time spans as it becomes more personalized, more customized.

Interfaces will improve to where speech and handwriting recognition will be virtually flawless. Cloud computing will seamlessly provide much of necessary compute resources as needed. Bandwidth to access applications in cloud and to access the Internet is growing and will continue to grow. Some of the specific technologies that will be available will include three dimensional virtual reality, large-scale three dimensional printing and services like virtual home visits from family doctors.

Assignment

Q.1) Write the future of IT in your own words.