

## **PRACTICAL:-5**

***Using practical examples, describe green computing. List and explain the steps that you take to contribute to green computing***

**Ans:-**

### **INTRODUCTION.**

Green computing is the study and practice of minimizing the environmental impact of computer system and related resources effectively and eco-friendly. It is an emerging concept towards reducing the hazardous material and save our environment from the harmful impacts of the computer, CPU, servers and other electronic devices.

Green computing is an application of environmental science which offers economically possible solutions that conserve natural environment and its resources. Green computing is designing, manufacturing, using and disposing of computers and its resources efficiently with minimal or no impact on environment. The goals of Green computing is to manage the power and energy efficiency, choice of eco friendly hardware and software, and recycling the material to increase the product's life. Go for

Green computer reduced your electricity bill and give a full rest to your mind. Now in these days, we use the star management strategies and technologies that reduce energy consumption waste.

**Energy Savings** Apart from computers, there are different kinds of electrical appliances that consume significant amount of energy. This creates a demand for the energy production. Therefore, it is necessary to decrease this energy crisis as much as possible for making a more eco-friendly environment.

Green computing makes sure that very less amount of energy is consumed by the IT processes. Thus, this can save plenty amount of energy overtime.

1. **Cost Savings** Green computing is highly cost effective that helps people save money. Since lots of energies are saved when using a green computing solution, it also substantially leads to financial gains. Even though green computing is with high upfront costs, still it is cost effective in the long run.
2. **Recycling Process** Green computing encourages recycling process by reusing and recycling electronic wastes. Most parts of the computer are constructed using eco-friendly materials instead of plastic so that it can have less environmental impacts. This makes all the electronic wastes to get separated efficiently. Hence by implementing green computing strategies, companies overall can improve their recycling process.
3. **Brand Strengthen** Some customers are so well concerned about the environment that they are solely preferring to go with companies that support green computing. Green

computing is capable of creating public images so that they can strengthen their brand and market position all around the world.

4. **Less Pollution** Through conventional computing, lots of pollution issues take place in the environment. For an example, if not properly recycled all the electronic wastes from the computer may end up circulating on land. Thus, leading to soil as well as water pollution. By using green computing, the users can minimize the impact created by pollution at least to some extent.
5. **GHG Emission** During the production of IT hardware, tremendous amount of green house gases are released to the atmosphere. Especially, since harmful gases such as carbon dioxide are emitted, it could lead to global warming. Hence, for lowering the amount of green house gases emitted, the production of hardware components must be reduced as well. This is how green computing works effectively.
6. **Chemical Exposure** In most of the electronic devices, harmful chemicals such as mercury is used. If a human happens to get contacted with those substances, he/she will probably suffer from health risks. Some of the known health risks are triggering of immune responses, nerve damage or even cancer. The companies which practice green computing potentially avoid the use of non-toxic substances during the production of computer hardware.