

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

- **Green Computing:**

- i. Green computing, also called green technology, is the environmentally responsible use of computers and related resources. Such practices include the implementation of energy-efficient central processing units (CPUs), servers and peripherals as well as reduced resource consumption and proper disposal of electronic waste (e-waste).
- ii. Green computing” is the name attached to this movement, which represents an environmentally responsible way to reduce power and environmental waste.
- iii. The goals of green computing are similar to green chemistry; reduce the use of hazardous materials, maximize energy efficiency during the product's lifetime, and promote the recyclability or biodegradability of defunct products and factory waste research continues into key areas such as making the use of computers as energy-efficient as possible, and designing algorithms and systems for efficiency-related computer technologies.
- iv. For example; Participating in Electronic Recycling Programs, Purchasing from Environmentally Committed Companies, and Limiting Printing and Recycling Paper.

- **List and explain the steps that you take to contribute to green computing:**

1. Develop a sustainable green computing plan:

Discussing with our business leaders the elements that should be factored into such a plan, including organizational policies and checklists. Such a plan should include recycling policies, recommendations for disposal of used equipment, government guidelines and recommendations for purchasing green computer equipment. Green computing best practices and policies should cover power usage, reduction of paper consumption, as well as recommendations for new equipment and recycling old machines. Organizational policies should include communication and implementation.

2. Recycle:

Discarding used or unwanted electronic equipment in a convenient and environmentally responsible manner. Computers have toxin metals and pollutants that can emit harmful emissions into the environment. Never discard computers in a landfill. We should Recycle them instead through manufacturer programs such as HP's Planet Partners recycling service or recycling facilities in our community. Or donating still-working computers to a non-profit agency.

3. Make environmentally sound purchase decisions. Purchase Electronic Product Environmental Assessment Tool registered products. EPEAT is a procurement tool promoted by the non-profit Green Electronics Council to:

- Helping institutional purchasers evaluate, comparing and selecting desktop computers, notebooks and monitors based on environmental attributes.
- Providing a clear, consistent set of performance criteria for the design of products.
- Recognizing manufacturer efforts to reduce the environmental impact of products by reducing or eliminating environmentally sensitive materials, designing for longevity and reducing packaging materials.

4. Reduce Paper Consumption:

There are many easy, obvious ways to reduce paper consumption: e-mail, electronic archiving, use the “track changes” feature in electronic documents, rather than redline corrections on paper. When we do print out documents, we should make sure to use both sides of the paper, recycling regularly, using smaller fonts and margins, and selectively print required pages.

5. Use a laptop instead of desktop:

Laptops are environmentally friendly because they have components that do not require a lot of power. We should use a laptop as much as we can.

6. Conserve energy:

We should Turn off our computer when we know we won't use it for an extended period of time. Turn on power management features during shorter periods of inactivity.