

CLASS V – COMPUTER APPLICATION

✓ REVISION POINTERS (2025–26)

1 GREEN COMPUTING (Environment & ICT)

1.1 Meaning of Green Computing

- Green Computing is the practice of using computer resources with **minimal or no impact on the environment**.
 - It is also called **environmentally sustainable computing**.
 - Implementing green computing reduces pollution levels.
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1.2 Why Green Computing is Important

- Computers are a major factor in causing **energy wastage**.
 - Excess electricity usage increases pollution.
 - ICT devices impact the environment if not used responsibly.
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1.3 Approaches to Green Computing

1. **Green Use**
 - Using computers efficiently.
 - Using power management techniques.
 - Turning off devices when not in use.
2. **Green Design**
 - Designing energy-efficient devices.
 - Using eco-friendly materials.
3. **Green Manufacturing**
 - Manufacturing devices using eco-friendly materials.
 - Example: **Bamboo**
 - Bamboo can be used to make casings for computers and peripherals.
 - It is environmentally friendly.
4. **Green Disposal**
 - Reuse
 - Refurbish
 - Recycle

Reuse, Refurbish and Recycle help to achieve **Green Disposal**.

1.4 Power Management

Power management helps in saving electricity and reducing pollution. It is an important part of **Green Computing**.

1 Sleep Mode

- A power-saving state.
 - Brings computer back to full-power operation when resumed.
 - Saves energy.
 - Does NOT copy system data to hard drive.
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2 Hibernate Mode

- Copies system data to a reserved area on the hard drive.
 - Then turns off the computer.
 - Saves more power than Sleep mode.
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3 Creating Your Own Power Plan

Creating your own power plan is one of the best ways to save power based on your usage.

✓ Steps to Create Your Own Power Plan (Windows)

1. Click on the **Start** button.
 2. Open **Control Panel**.
 3. Click on **Power Options**.
 4. Select **Create a Power Plan**.
 5. Choose a base plan (Balanced / Power Saver).
 6. Click **Next**.
 7. Set:
 - Time to turn off the display.
 - Time to put the computer to sleep.
 8. Click **Create** to save the plan.
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4 Benefits of Creating Your Own Power Plan

- Saves electricity.
 - Reduces energy wastage.
 - Prolongs battery life.
 - Helps in Green Computing.
 - Reduces pollution levels.
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5 Monitor & Hardware Efficiency

- LCD monitors use **3 times less power** when active.
 - It is wrong to replace LCD with CRT (CRT consumes more power).
 - Screen resolution can be adjusted to improve clarity.
 - One monitor setting option: Screen resolution.
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6 Tips to Save Environment (ICT Focus)

- Use hardware/software with Energy Star label.
 - Turn off devices when not in use.
 - Use power management techniques.
 - Create your own power plan.
 - Use eco-friendly materials.
 - Reduce energy consumption.
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2 BLOGGING

2.1 Blog

- A blog is a public website where users post their thoughts, comments, experiences and philosophies.

2.2 Blogging

- Blogging is the act of writing a post for a blog.

2.3 Blogger

- A blogger is a person who creates content for a blog.
- (Note - A programmer does NOT create blog content but write code for applications)

2.4 Blog Security

- You can make changes to your blog using:
 - Username
 - Password

2.5 Advantages of Blog

- Share ideas and opinions.
 - Connect with people worldwide.
 - Easy to publish content.
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3 E-MAIL

3.1 Email Meaning

- Email is a digital message sent electronically from one computer to another.

3.2 Types of Data Shared Through Email

- Text
- Files
- Images
- Videos

3.3 Advantages of Email

- Delivered extremely fast.
- Eco-friendly.
- Economical.
- Easy communication.

3.4 Disadvantages of Email

- Viruses spread through attachments.
 - Spam messages.
 - Phishing attacks.
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4 E-COMMERCE

4.1 Meaning

- eCommerce means the sale and purchase of goods and services over the internet.

4.2 Products & Services Purchased

- Clothes
- Books
- Electronics
- Tickets
- Online subscriptions
- Services

4.3 Secure eCommerce

A good eCommerce site:

- Uses encryption.
- Has URL beginning with HTTPS.
- Shows a padlock icon in browser.
- Protects user information.

5 ENCRYPTION & SECURE WEBSITES

5.1 Encryption

- Means scrambling personal details using a secret code for data protection.

5.2 Secure Website Identification

- URL begins with HTTPS.
- Small padlock icon in browser.
- Uses encryption for safety.

6 CYBER SAFETY & CYBER LAWS

6.1 Cyber Laws

- Created to safeguard users' money and rights.

6.2 Phishing

- Sending fake emails pretending to be a legitimate company to scam users.

6.3 Fraud

- Online cheating or scam.

6.4 Viruses

- Easily spread through email attachments.
- Harm computer systems.

7 SOCIAL NETWORKING

7.1 Meaning

- Online platforms used to interact and communicate with others.

7.2 Advantages

- Connect with friends.
- Share information.
- Communication worldwide.
- Stay updated.

7.3 Disadvantages

- Privacy risks.
- Personal data can be hacked.
- Excess usage has negative impact.
- Reduces outdoor activities.

(Note: There is negative impact of excessive social media use.)

8 CHATTING

- Chatting is text-based real-time communication.
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9 IMPORTANT TRUE/FALSE CONCEPTS FOR REVISION

- Sleep mode does NOT copy data to hard drive. ✗
 - Hibernate mode copies data to hard drive. ✓
 - Hibernate saves more power than Sleep. ✓
 - LCD monitors use less power. ✓
 - Screen resolution can be adjusted. ✓
 - A blogger creates blog content. ✓
 - Programmer does not create blog content. ✗
 - A good eCommerce site uses encryption. ✓
 - Phishing is an email scam. ✓
 - Emails are eco-friendly and economical. ✓
 - Creating own power plan saves power. ✓
 - Excess social media has negative impact. ✓
 - Green computing means using computer resources with minimal impact on the environment. ✓
 - Hibernate mode saves less power than Sleep mode. ✗
 - A blogger is a person who creates content for a blog. ✓
 - A secure website URL begins with HTTP only. ✗
 - Encryption means scrambling personal details using a secret code. ✓
 - Viruses cannot spread through email attachments. ✗
 - Creating your own power plan helps in saving electricity. ✓
 - Phishing emails pretend to be from legitimate companies to scam users. ✓
 - There is no negative impact of excessive use of social media. ✗
 - eCommerce means buying and selling goods and services over the internet. ✓
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10 VERY IMPORTANT DEFINITIONS

1 Green Computing

Green Computing means using computers in a way that does not harm the environment and saves electricity.

2 Blog

A blog is a public website where people write and share their thoughts, ideas, or information.

3 Blogging

Blogging is the act of writing and posting content on a blog.

4 Blogger

A blogger is a person who writes and posts content on a blog.

5 Email

Email is a digital message sent from one computer to another using the internet.

6 eCommerce

eCommerce means buying and selling goods and services over the internet.

7 Encryption

Encryption means changing information into a secret code to keep it safe.

8 Phishing

Phishing is a type of online scam where fake emails pretend to be from real companies to steal information.

9 Cyber Laws

Cyber laws are rules made to protect people's money, data, and rights on the internet.

10 Green Manufacturing

Green manufacturing means making computer devices using eco-friendly materials that do not harm the environment.

11 Green Disposal

Green disposal means safely getting rid of old computers by reusing, refurbishing, or recycling them.

12 Sleep Mode

Sleep mode is a power-saving state that keeps your computer on at low power so you can quickly start working again.

13 Hibernate Mode

Hibernate mode is a power-saving state that saves your work on the hard drive and then completely turns off the computer.