

Student Learning Outcomes

By the end of this chapter, you will be able to:

- Describe the importance of using computers safely and responsibly in daily activities.
- Explain how to protect personal information while using computers and online platforms.
- Identify the factors to consider when selecting computer hardware and software for safety, efficiency, and compatibility.
- Explain how choosing the right hardware and software affects the overall computer experience.
- Demonstrate how to create strong, unique passwords and explain their importance.
- Describe the need for regular software updates and the maintaining device security.
- · Identify potential risks associated with clicking on unknown links and downloading files from untrusted sources.
- · Explain the concept and then ditted two-Factor Authentication (2FA).
- Describe the risks of using public Wi-Fi for sensitive transactions and the importante of secure networks.
- Identify and avoid common online scams and phishing attempts.
- Explain the importance of regularly backing up important data and describe methods for doing so.
- Describe responsible behavior on social media, email, cloud services, and online applications.
- Explain the significance of privacy settings and data security measures in protecting personal information online.
- Identify ethical and legal responsibilities related to intellectual property rights, including copyright, trademarks, and patents.
- Discuss the importance of respecting intellectual property and the implications of software piracy.
- Describe privacy laws and their purpose in protecting personal information online.
- Explain the legal consequences of unauthorized access to personal data and the responsibilities of companies to safeguard user information.
- Explain the principles of data ethics, including transparency, respect for privacy, and accountability.
- Describe ethical guidelines for data collection, storage, and sharing, including the importance of informed consent and data security.
- Analyze real-life case studies of data breaches to understand the impact of poor data security and the importance of following legal and ethical guidelines.

Define and explain the significance of copyrights, trademarks, and patents in protecting digital content and inventions.

Discuss the ethical and legal responsibilities related to intellectual property

rights and the consequences of infringing on these rights.

Demonstrate techniques for safe online research, including using reliable sources thecking authorship, and cross-checking information.

Explain strategies for protecting privacy during online research, such as using

private browsing and avoiding suspicious links.

 Recognize signs of internet addiction and suggest strategies for promoting balanced internet usage and engaging in offline activities.

ethical concerns and maximizing the societal benefits of Al and IoT.

Introduction

Computers and digital devices are now a big part of our daily lives, helping us with schoolwork, staying in touch with friends, and even playing games. But with all these great tools comes the need to use them safely and responsibly. In this chapter, we'll learn how to use computers and digital platforms wisely. We'll explore how to keep our personal information safe, make smart moices about the hardware and software we use, and behave respectfully online. By understanding these important aspects, we can enjoy technology while avoiding problems and protecting ourselves and others. Let's understand the world of secure and conscientious computer usage to make sure we get the most out of our digital experiences!

Secure and Conscientious Computer Usage

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Computers have become a crucial part of our everyday lives. Whether we are using them for schoolwork, chatting with friends, or playing games, it's important to use computers safely and responsibly. Safe and responsible computer usage means knowing how to protect our personal information, making wise choices about the hardware and software we use, and ensuring that our online behavior is respectful and ethical. In this chapter, we will explore the key aspects of using computers wisely and securely, so we can enjoy the benefits of technology while avoiding potential risks.

Tidbits

Online Etiquette: The "Golden Rule" applies online too, treat others as you want to be treated. This helps maintain respectful and positive interactions.

11.1 Responsible Computer Usage

Being responsible with technology means making thoughtful decisions when using computers. This includes selecting the right hardware and software, safeguarding our data, and using the internet in a way that respects others. Let's take a closer look at why it's important to use technology responsibly.

When we talk about computers, hardware refers to the physical parts like the monitor, keyboard, and CPU, while software includes the programs and applications we use, such as word processors or games. Choosing the right hardware and software is important because it can affect the safety, efficiency, and overall experience of using a computer.

Safety: Just as you wouldn't use a broken or unsafe tool, using outdated or
insecure hardware or software can put you at risk. For example, using a
computer without updated antivirus software can make it easier for viruses or

hackers to steal your information.

• **Efficiency**: The right hardware and software help you complete tasks quickly and easily. Imagine trying to play a new video game on an old computer, the game might be slow or not work at all, making it frustrating to use.

• Compatibility: This means that the hardware and software should work well together. You should always check the system requirements on software packages and match them with your computer's specifications to ensure compatibility.

Cyber Hygiene: Just like washing your hands to prevent germs, updating your antifying software regularly is essential to prevent digital viruses.

Responsible Computer Choices Class activity Activity Task Details:

- 1. Introduction (10 minutes): Briefly discuss why selecting the right hardware and software is important for a safe and effective computer use.
- 2. Task (30 minutes): Divide students into small groups. Give each group a worksheet with different scenarios related to hardware and software choices (For example, choosing a computer for gaming vs. schoolwork, selecting antivirus software). Ask each group to discuss the pros and cons of the choices and recommend the best options for each scenario.

3. Presentation (10 minutes): Each group presents their findings and recommendations to the class

Details: Students will learn how different hardware and software impact computer safety, efficiency, and compatibility by analyzing practical examples and making informed decisions.

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11.2 Safe and Secure Operation of Digital Platforms
In today's digital world, we use various online platforms and devices for communication, learning, entertainment, and work. While these digital tools offer many benefits, it's essential to operate them safely and securely to protect our personal information and maintain a positive online environment. This section will guide you on how to use digital platforms and devices responsibly.

11.2.1 Safe Operation of Digital Platforms and Devices

When we talk about the "safe operation" of digital platforms and devices, we mean using them in a way that protects you from harm and avoids any unwanted

issues. Here are some key points to consider:

1. Using Strong Passwords: Always create strong, unique passwords for your accounts. A strong password typically includes a mix of letters, numbers, and special characters. For example, instead of using "password123," you could use something like "B3tterP@ssw0rd!".

Habits

Two-Factor Authentication (2FA): The concept of 2FA awas first used in the 1980s, but it became widespread with the rise of phline accounts in the 2000s.

2. Regular Software Updates: Keeping your devices and applications up to date is grudial for safety. Software updates often include important security fixes that protect your device from new threats.

Tidbits

Software Updates: Microsoft releases major updates for Windows every six months, showing how frequently technology needs to be refreshed for security.

3. Being Cautious with Links and Downloads: Avoid clicking on unknown links or downloading files from untrusted sources. These could contain harmful software, known as malware, that can damage your device or steal your personal information.

4. Understanding Privacy Settings: Most digital platforms allow you to control who can see your information and interact with you online. It's important to check and adjust your privacy settings to protect your

personal information.

5. Avoiding Oversharing: While it can be fun to share photos and updates with friends online, it's essential to be mindful of the information you share. Avoid posting personal details like your home address, phone number, or school hame. I. WANNE

11.2.2 Secure Use of Digital Platforms

Using digital platforms securely means taking extra steps to protect your information and ensuring that your online activities do not put you or others at risk. Here are some tips:

1. Two-Factor Authentication (2FA): Two-Factor Authentication adds an extra layer of security to your accounts. After entering your password, you will be asked to provide another piece of information, like a code sent to your phone. This makes it much harder for someone to hack into your account.

2. Avoiding Public Wi-Fi for Sensitive Transactions: Public Wi-Fi networks, like those in cafes or libraries, are often less secure. It's best to avoid accessing sensitive information, such as online banking, while connected to these networks. Instead, wait until you're on a secure, private network at home.

3. Being Aware of Scams: Online scams are designed to trick you into giving away your personal information. These can include phishing emails that pretend to be from legitimate companies asking for your login details. Always be skeptical of unsolicited requests for personal information, and verify the source before responding.

4. Regularly Reviewing Your Account Activity Periodically check your online accounts for any unusual activity This includes looking at your recent logins, messages and transactions. If you notice anything suspicious, such as logins from unfamiliar locations, change your password immediately and report the activity to the platform.

5. Backing No Important Data: Regularly backing up your data ensures that you won't lose important information if something goes wrong with your device. You can back up your data to an external hard drive or a cloud storage service like Google Drive or Dropbox.

11.3 Best Practices in Online Behavior

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11.3.1 Responsible Use of Social Media, Email, Cloud Services, and Online Applications

In today's digital world, we use social media, email, cloud services, and online applications every day. While these tools make our lives easier and more connected, it's important to use them responsibly.

Using digital platforms like social media, email, cloud services, and online

Tidbits

Data Collection: The ethical principle of "informed consent" (news you have the right to know how your data is being used. This principle was emphasized in the 2004 Bioethics Commission report.

applications has become a part of our daily lives. However, it's important to use these tools responsibly to ensure our safety and the safety of others.

• Social Media: Social media platforms like Facebook, Instagram, and Twitter allow us to connect with friends and share information. But it's important to think before you post. Always avoid sharing personal information, like your home address or phone number, publicly.

work. However, it's important to be careful when opening emails from unknown senders. These could contain harmful links or attachments.

 Cloud Services: Cloud services like Google Drive or Dropbox allow you to store and share files online. While these services are convenient, it's important to use them wisely. Always use strong passwords to protect your accounts and avoid sharing sensitive information, like passwords or financial details, through cloud storage.

Online Applications: Online applications, such as games, learning apps, or shopping platforms, are fun and useful but can also pose risks. Make sure to download apps only from trusted sources like Google Play Store or

Apple App Store to avoid downloading harmful software.

11.3.2 Importance of Privacy Settings and Data Security Measures

Privacy settings and data security measures are essential tools that help protect

your personal information while using digital platforms. Colo

• **Privacy Settings**: Most online platforms, including social media and email services, allow you to adjust privacy settings to control who can see your information. For instance, on Facebook, you can choose who can see your posts public, friends, or just you. It's important to regularly review and update your privacy settings to make sure your personal information is protected.

• Data Security Measures: Data security measures help protect your information from unauthorized access. Using strong, unique passwords for each of your online accounts is one of the simplest and most effective ways to secure your data. For example, instead of using "password123," create a password that combines letters, numbers, and symbols, like

"S3cur3!Passw0rd."

11.4 Legal and Ethical Frameworks
In this era, we rely heavily on technology for communication, learning, and entertainment. While these tools bring many benefits, they also raise important questions about how our personal information is handled and protected.

11.4.1 Legal Frameworks for Privacy

11.4.1.1 Understanding Privacy Laws and Their Implications

Tidbits

Search Engine Milestones: Google processes over 3.5 billion searches per day, making it the most popular search engine for finding credible information.

Privacy laws are rules set by the government to protect our personal information. These laws ensure that companies and organizations handle our data responsibly. When we use the internet, we often share personal details like our names, addresses, or even what we like to buy. Privacy laws help make sure that this information is kept safe and not misused.

Understanding these laws is important because they give you the power to control your personal information. If a company misuses your data. Such as by

sharing it without your permission, you have the right to take legal action.

11.4.1.2 Laws Protecting User Privacy and Consequences of Unauthorized Access

There are specific laws designed to protect your privacy online. These laws make it illegal for someone to access your personal information without permission. For instance, if someone hacks your email or social media account, they are

breaking the law.

Unauthorized access to your information can lead to serious problems, such as identity theft or fraud. To prevent this, privacy laws require companies to implement strong security measures, like encryption, to protect your data. If a company fails to protect your information, they could be held responsible and face legal penalties.

11.4.2 Data Ethics and Responsible Use

11.4.2.1 Introduction to Data Ethics and Principles Governing Data Handling

Data ethics is about doing the right thing when it comes to collecting, storing, and using information. Just because we can gather a lot of data doesn't mean we should use it in any way we want. Data ethics helps guide us to use information

fairly and responsibly.

The principles of data ethics include transparency, respect for privacy, and accountability. This means being clear about how data is used, protecting people's personal information, and taking responsibility if something goes wrong.

11.4.2.2 Ethical Considerations in Data Collection, Storage, and Sharing

When data is collected, stored, or shared, there are important ethical considerations to keep in mind. Collecting data should always be done with the person's consent. This means that before gathering information, the person must agree to it.

• Storing data also requires responsibility. Data must be kept secure so that unauthorized people can't access it. For example, storing medical records requires strong security because this information is private and sensitive.

• Sharing data should be done carefully and only when necessary. For instance, a school hight share your grades with your parents, but it shouldn't share them with other students without your permission. Being ethical means thinking about how sharing information might affect others and acting in a way that respects their rights.

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Data Ethics Role-Play Activity Task Details:

Introduction (10 minutes): Discuss the principles of data ethics,

including transparency, consent, and accountability.

2. Task (30 minutes): Divide students into small groups and give each group a role-play card with a scenario involving data collection or usage (e.g., a company asking for user data, a school collecting survey responses). Each group acts out their scenario and discusses the ethical considerations involved.

3. Discussion (10 minutes): Groups present their role-plays and discuss the

ethical issues and solutions.

Details: Through role-playing, students will gain insight into the ethical implications of data handling and the importance of responsible data practices.

11.4.2.3 Ethical Guidelines for Data Usage and Management

Ethical guidelines for data usage involve ensuring that data is used for the purpose it was intended and that it benefits the person who provided it. Misusing data. Such as selling it to third parties without consent, is unethical and can lead to a loss of trust. These guidelines include:

Informed Consent: Always lask for permission before collecting someone's data. For example, a website should ask if it's okay to track

your activity before doing so.

Data Minimization: Only collect the data you need. If you're conducting a survey, don't ask for unnecessary personal details.

Data Security: Protect the data you collect. Use strong passwords and

encryption to keep information safe.

Accountability: If something goes wrong, take responsibility. If there's a data breach, inform the affected individuals and take steps to fix the problem. Tidbits

Data Breaches: In 2013, the largest data breach affected Yahoo, exposing the data of 3 billion accounts, including names, email addresses, and passwords.

Data Breach Case Study Analysis Class activity **Activity Task Details:**

1. Introduction (10 minutes): Introduce a few high-profite data breach

cases and their consequences.

2. Task (30 minutes): Divide students into groups and assign each group a case study. Ask them to analyze the case, identify the key issues, and discuss the lessons learned.

3. Presentation (10 minutes): Groups present their analysis and discuss how

such breaches dould be prevented in the future.

Details: Students will learn about the real-world implications of data breaches and the importance of robust data security measures.

Intellectual property kights

Intellectual property rights are important because they protect the creations and ideas of individuals and organizations. When someone creates something new, like a piece of music, a book or an invention, they have the right to control how it is used.

11.5.1 Concepts of Intellectual Property

11.5.1.1 Copyright, Trademarks, Patents, and Their Significance in Digital Content

Copyright is a legal right that gives creators control over their original works, such as music, books, movies, and software. For example, when an author writes a book, they have the copyright to decide how the book is published, shared, or adapted. This means no one else can copy or distribute the book without the author's permission.

Trademarks are symbols, names, or slogans used by companies to distinguish their products or services from others. For instance, the Nike "swoosh" logo is a trademark. Trademarks protect brand identity, so no other company can use a

similar symbol to confuse customers.

Patents protect new inventions or processes, giving the inventor exclusive rights to make, use, or sell the invention for a certain period. For example if someone invents a new type of smartphone, they can patent it to prevent others from making or selling a similar phone without permission,

11.5.1.2 Ethical and Jegal Responsibilities Regarding Intellectual Property Rights

Respecting intellectual property rights means understanding that copying, sharing, or using someone else's work without permission is not only unethical but also illegal. For example, downloading movies or software without paying for them is a violation of copyright law. It's important to always seek permission or purchase content legally to support creators and respect their rights.

11.5.2 Legal Compliance in Computing

Software piracy is the illegal copying, distribution, or use of software. When you buy software, you are actually buying a license to use it, not the software itself. Copying it and sharing it with others without a proper license is against the law. Piracy is harmful because it cheats software developers out of the money they need to continue creating and improving their products.

By understanding and respecting intellectual property rights, we can all

Tidbits

contribute to a fair and legal digital environment.

Software Piracy Impact: Software piracy is estimated to cost the global economy over \$46 billion annually showing the significant impact on developers and businesses.

11.6 Responsible

Using the internet responsibly means being aware of how our online activities

can affect us and others. This section will help you understand how to use the internet safely, avoid potential risks, and maintain a healthy balance in your online life.

11.6.1 Safe Data Searches and Online Research

11.6.1.1 Techniques for Safe Data Searches and Credibility Assessment

When searching for information online, it's important to do so safely and ensure that the information you find is dredible and reliable. Here are some tips:

Cross-Check Information: Don't rely on a single source. Check multiple sources to confirm the accuracy of the information. If several trustworthy websites agree on the same facts, the information is more likely to be accurate.

Be Skeptical of Sensational Headlines: Avoid websites that use sensational or misleading headlines designed to grab your attention. These sites often spread false information or "fake news." For example, a headline that claims a miracle cure for a disease is likely, not credible.

Tidbits

Credibility Check: Websites with ".edu" domains are usually educational institutions and are often more reliable sources for research.

11.6.1.2 Avoiding Privacy Risks During Online Resears

When conducting research online it's important to protect your privacy. Here's how:

Use Private Browsing: Most web browsers offer a private or incognito mode that doesn't save your browsing history or personal information. This is useful when researching sensitive topics.

Be Careful with Personal Information: Avoid entering personal information on unfamiliar websites. For example, if a website asks for your email address or phone number to access information, consider whether it's worth the risk.

 Avoid Suspicious Links: If you come across links that seem strange or too good to be true, do not click on them. They could lead to harmful websites that try to steal your personal information. idbits

Tech Evolution: The first computer mouse, invented in 1964, was a wooden box with a single button. Today's mice come with multiple buttons and advanced features!

11.6.2 Preventing Internet Addiction

11.6.2.1 Understanding Internet Addiction and Promoting Balanced Usage

Internet addiction happens when a person spends so much time online that it starts to interfere with their daily life. It's important to recognize the signs of internet addiction and take steps to prevent it.

Recognizing the Signs: If you find it hard to stop using the internet, even
when it's time to sleep, study or spend time with family and friends, you
might be developing an unhealthy habit. For example, if you spend hours
scrolling through social media every day and neglect your homework, it
could be a sign of internet addiction.

• Set Time Limits: One way to prevent internet addiction is by setting time limits on your internet use. For example, you can decide to spend no more

than one hour on social media each day and stick to it.

 Find Offline Activities: Balance your online time with offline activities like sports, reading, or spending time with friends in person. This helps you maintain a healthy lifestyle.

11.6.2.2 Strategies for Digital Well-being and Fostering Healthy Online Habits

Maintaining digital well-being means using the internet in a way that is healthy and balanced. Here are some strategies:

 Take Regular Breaks: When using the internet for long periods, take breaks to rest your eyes and clear your mind. For example, if you're studying online, take a 5-minute break every hour to stretch and relax.

Use Technology Wisely: Make use of apps or features that help you manage your time online. Some apps can track your screen time and send

you reminders to take a break.

Be Mindful of Your Mental Health: If being online makes you feel stressed, anxious, or unhappy, it might be time to cut back. For instance, if you feel overwhelmed by constant notifications, consider turning them off for a while.

11.6.3 Say The working Safety and Online Interactions

11.6.3.1 Privacy Settings, Responsible Sharing, and Online Etiquette

Social networking platforms allow us to connect with friends and share our lives,

but it's important to do so safely and respectfully.

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 Adjust Your Privacy Settings: Make sure your social media accounts are set to private, so only people you trust can see your posts. For example, on Instagram, you can set your account to "private" so only approved followers can view your content

 Practice Good Online Etiquette: Be respectful in your online interactions. This means using polite language, avoiding arguments, and not spreading rumors or false information. For example, if you disagree with someone's post, express your opinion respectfully without insulting them.

11.6.3.2 Addressing Cyberbullying, Harassment, and Respectful Online Interactions

Cyberbullying and online harassment are serious issues that can hurt people emotionally and mentally. Here's how to deal with them:

· Recognize Cyberbullying: Cyberbullying involves using the Internet to

harm or harass others. This can include sending mean messages, spreading rumors, or posting embarrassing photos of someone without

their permission.

Report and Block: If you experience or witness cyberbullying, report it to
the platform and block the person responsible. Most social media
platforms have tools to help you do this. For instance, on Facebook, you
can block someone to stop them from contacting you or viewing your
profile.

 Support Others: If you see someone being bullied online, offer your support. You can stand up for them by reporting the bullying or simply offering kind words. This can make a big difference in how they feel.

Practice Respectful Interactions: Always treat others with respect online, just as you would in person. Avoid making negative comments, and think about how your words might affect someone else. For example, if you see a post you don't like, it's better to scroll past it than to leave a hurtful comment.

Class activity

Understanding Privacy Settings Activity Task Details:

1. Introduction (10 minutes): Discuss the importance of privacy settings and how they can protect personal information.

2. Task (30 minutes): Divide students into groups. Assign each group a different digital platform. Ask them to find and document where and how to adjust privacy settings on their assigned platform.

 Presentation (10 minutes): Groups share their findings with the class, explaining how to set up privacy settings to protect personal information.

Details: This activity enables students to practice adjusting privacy settings and understand their role in protecting personal data.

11.7 Impact of Computing on Society

Computing technology has a significant effect on our world. It changes how we live, work, and interact with each other. This section will explore the different ways computing impacts our society and what to expect in the future.

11.7.1 Influence on Behaviors and Practices

11.7.1.1 Environmental, Ethical, Legal Societal, Economic, and Cultural

Computing affects many aspects of our lives, from the environment to our

cultural practices. Here show.

 Ethical Impact: Computing raises ethical questions about how we use technology. For example, using someone else's work without permission is unethical. This is why it's important to respect copyright laws and give credit to the original creators.

• Legal Impact: Computing also involves legal issues, such as privacy laws and regulations about internet usage. For instance, laws protect our personal information from being misused by companies or individuals. Understanding these laws helps us protect our rights online.

• Societal Impact: Technology changes how we interact with each other. Social media allows us to connect with friends and family around the world, but it can also lead to issues like cyberbullying. Being aware of

these impacts helps us use technology in positive ways.

 Economic Impact: Computing technology has created new industries and job opportunities. For example, software development and digital marketing are booming fields. However, it also affects traditional jobs, as automation can replace some roles. Understanding these changes helps us adapt to the evolving job market.

11.7.1.2 Role of Computing in Global Trade, Communication, and Cultural Evolution

Computing has transformed how we trade, communicate, and share culture globally:

• Global Trade: Computing systems make it easier to buy and sell products around the world. Online shopping platforms like Amazon, Ali Express and Daraz allow us to purchase items from different countries. Computers help businesses manage inventory, process transactions, and track shipments efficiently.

Communication: Technology enables instant communication through email messaging apps, and social media. For example, video calls allow people to work or chat with friends across long distances, making global

collaboration and personal connections easier.

Cultural Evolution: Computing helps share and spread cultures. Online
platforms like YouTube and Instagram let people from different cultures
share their traditions and ideas.

11.7.2 Assessing Computing Advancements

11.7.2.1 Benefits and Risks of Computing Advancements (Social Networking, Misinformation)

Computing advancements bring many benefits but also some risks:

 Social Networking Benefits: Social networking platforms help us stay connected and share information quickly. For example, Facebook allows users to keep in touch with friends and family, share updates, and join

interest groups.

Misinformation Risks: While social media is useful, it can also spread
false information. Misinformation can mislead people and cause
confusion. For instance, a false news story about a health issue can spread
quickly and lead to harmful behavior. It's important to verify information
from reliable sources before believing or sharing it.

11.7.2.2 Trade-offs Between Privacy, Security, and Usability in Computing Systems

When designing and using computing systems, there are trade-offs between

privacy, security, and usability:

Privacy vs. Usability: Sometimes, protecting privacy can make a system less convenient to use. For example, requiring strong passwords and twofactor authentication can make logging in more secure but also more time-consuming. Privacy vs. Usability: Finding a balance between ease of use and strong security measures is essential.

Security vs. Usability: Implementing high-security measures can sometimes make systems less user-friendly. For example, a complex security system may be harder for users to navigate. It's important to design systems that are both secure and easy to use, ensuring users are

protected without sacrificing convenience.

Summary

Safe and responsible computer usage means knowing how to protect our personal information, making wise choices about the hardware and software we use, and ensuring that our online behavior is respectful and ethical.

Responsible computer usage means protecting ourselves and others

when using computers.

Safe operation of digital platforms and devices, mean using them in a way

that protects you from harm and avoids any unwanted issues.

Using digital platforms securely means taking extra steps to protect your information and ensuring that your online activities do not put you or others at risk.

Privacy settings and data security measures are essential tools that help

protect your personal information while using digital platforms.

Privacy laws are rules set by the government to protect our personal information. These laws ensure that companies and organizations handle our data responsibly.

Ethical guidelines for data usage involve ensuring that data is used for the purpose it was intended and that it benefits the person who provided it.

Intellectual property rights are important because they protect the creations and ideas of individuals and organizations.

Copyright is a legal right that gives creators control over their original works, such as music, books, movies, and software.

Trademarks are symbols, names, or slogans used by companies to distinguish their products or services from others.

Patents protect new inventions or processes, giving the inventor exclusive rights to make, use, or sell the invention for a certain period.

Software piracy is the illegal copying, distribution, or use of software.

E).COM Multiple Choice Questions (MC) 1. Why is it important to use computers safely and responsibly? a) To ensure we can use them more frequently protect our personal information and make wise choices about hardware and software c) To make the computer run faster d) To avoid paying for software 2. What does "responsible computer usage" include? a) Choosing the most expensive hardware b) Sharing your passwords with friends c) Being cautious about what you share online and protecting yourself d) Ignoring software updates 3. What should you check to ensure hardware and software compatibility? a) The color of the hardware b) The system requirements on software packages and match them with your computer's specifications c) The price of the hardware d) The brand of the hardware 4. Why is it importate to use strong unique passwords? a) To make your accounts easy to hack b) To help others guess your password c) To make it harder for someone to guess your password and access d) To avoid installing software updates 5. What is one reason to avoid clicking on unknown links or downloading files from untrusted sources? a) They might contain helpful software b) They might contain malware that can harm your device or steal your c) They are usually cheaper d) They help your device run faster 6. What does Two-Factor Authentication (2FA) do? a) It makes your password easier to guess b) It adds an extra layer of security by requiring a second form of c) It removes the need for a password d) It reduces the need for software updates 7. Why should you be autique hen using public Wi-Fi for sensitive 239

your accounts

verification

transactions?

b) Public Wi-Fi is usually faster
c) Public Wi-Fi is free
d) Public Wi-Fi is free d) Public Wi-Fi always provides encryption 8. What is an important aspect of responsible use of social media?

a) Sharing personal information like your home address b) Posting photos without considering privacy settings c) Being respectful and avoiding sharing sensitive information publicly d) Ignoring privacy settings 9. What should you do if you receive an email from an unknown sender asking for personal information? a) Provide the information requested b) Forward the email to your friends c) Ignore or delete the email d) Open the email and click on any links 10. Why is it important to regularly review your account activity? a) To update your contact information b) To look for unusual activity and ensure your accounts are secure c) To check the number of friends you have d) To download new applications 11. What is the purpose of privacy settings on digital platfer a) To make your posts public b) To control who can see your information and interact with you online c) To increase the number of followers d) To automatically share your information 12. What should you do to ensure data security? a) Use the same password for all accounts b) Share your passwords with friends c) Use strong, unique passwords and enable two-factor authentication d) Avoid using any security measures 13. What is a key aspect of data ethics? a) Using data in any way you like b) Transparency, respect for privacy, and accountability in data usage c) Collecting as much data as possible d) Ignoring data security 14. What is software piracy? a) Sharing software legally with friends b) The illegal copying, distribution, or use of software c) Buying software from an official source d) Updating software regularly 15. How can you verify the credibility of information found online? a) By checking the number of ads on the website b) By using multiple reputable sources and checking the author's

credentials

c) By looking at the website's design

d) By the website's popularity

Short Questions

1. What is the importance of using computers safely and responsibly?

2. How does choosing the right hardware and software affect your computer usage?

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3. Why is it important to use antivirus software on your computer?

- 4. What are some examples of good practices when selecting hardware and software?
- 5. How can choosing compatible hardware and software enhance your computer experience?

6. Why should you create strong, unique passwords for your accounts?

7. What is the purpose of regular software updates?

8. How can you protect yourself from harmful links and downloads?

9. What is Two-Factor Authentication (2FA), and why is it useful?

10. Why is it a good idea to avoid using public Wi-Fi for sensitive transactions?

11. How can you verify if an email or message is a scam?

12. Why is it important to be careful about what you share on social media?

13. What should you do if you receive an email from an unknown sender asking for personal information?

14. What is the purpose of privacy laws regarding your personal information?

15. How do privacy laws protect you from unauthorized access to your data? 16. What is the difference between copyright, trademarks, and patents?

17. Why is it important to respect intellectual property rights?

18. What is software piracy, and why is it harmful?

19. How can you identify reliable sources when researching online?

20. What is one way to protect your privacy during online research?

21. What are some signs that you might be developing an internet addiction?

Long Questions

1. 1. Discuss the importance of responsible computer usage in today's digital world. Explain how selecting the right hardware and software can affect safety, efficiency, and compatibility in computer use.

2. Describe the steps you should take to ensure the safe operation of digital

platforms and devices.

3. Explain the concept of data ethics and its importance in handling personal and sensitive information. Discuss the principles of transparency, respect for privacy, and accountability.

4. Analyze the impact of privacy laws on protecting personal information in the digital age. How do laws like the Personal Data Protection Bill in Pakistan help

safeguard user data?

5. Discuss the different types of intellectual property rights, including copyright, trademarks, and patents. ONNAMO!

6. Describe the ethical and legal responsibilities related to intellectual property rights. What are the consequences of violating these rights, such as through software piracy or unauthorized use of copyrighted material?

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7. Outline effective techniques for conducting safe and credible online research.

How can users evaluate the reliability of sources and avoid privacy risks

during their research?

8. Discuss the concept of internet addiction and its potential impact on individuals. How can recognizing the signs of addiction, setting time limits, and finding offline activities help promote balanced internet usage?

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