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Class	9th	Chapter	11
Subject	Computer Science	Board	Punjab

CHAPTER 11: ETHICAL, SOCIAL, AND LEGAL CONCERNS IN COMPUTER USAGE (EXERCISE SOLUTION)

Multiple Choice Questions (MCQs)

1. Why is it important to use computers safely and responsibly?

(a) To ensure we can use them more frequently | (b) To 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

Answer: (b) To protect our personal information and make wise choices about hardware and 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 and others | (d) Ignoring software updates

Answer: (c) Being cautious about what you share online and protecting yourself and others

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

Answer: (b) The system requirements on software packages and match them with your computer's specifications

4. Why is it important 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 your accounts | (d) To avoid installing software updates

Answer: (c) To make it harder for someone to guess your password and access your accounts

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 information | (c) They are usually cheaper | (d) They help your device run faster

Answer: (b) They might contain malware that can harm your device or steal your information

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 verification | (c) It removes the need for a password | (d) It reduces the need for software updates

Answer: (b) It adds an extra layer of security by requiring a second form of verification

7. Why should you be cautious when using public Wi-Fi for sensitive transactions?

(a) Public Wi-Fi is usually faster | (b) Public Wi-Fi networks are often less secure | (c) Public Wi-Fi is free | (d) Public Wi-Fi always provides encryption

Answer: (b) Public Wi-Fi networks are often less secure

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

Answer: (c) Being respectful and avoiding sharing sensitive information publicly

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

Answer: (c) Ignore or delete the email

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

Answer: (b) To look for unusual activity and ensure your accounts are secure

11. What is the purpose of privacy settings on digital platforms?

(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

Answer: (b) To control who can see your information and interact with you online

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

Answer: (c) Use strong, unique passwords and enable two-factor authentication

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

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Answer: (b) Transparency, respect for privacy, and accountability in data usage

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

Answer: (b) The illegal copying, distribution, or use of software

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

Answer: (b) By using multiple reputable sources and checking the author's credentials

Short Questions

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

Answer: Using computers safely and responsibly protects personal privacy, prevents malware infections, safeguards financial data, ensures hardware longevity, and maintains a secure, ethical digital environment.

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

Answer: Choosing compatible, high-quality hardware and licensed software ensures optimal system performance, prevents crashes, avoids security vulnerabilities, and maximizes productivity.

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

Answer: Antivirus software detects, quarantines, and removes malicious software (viruses, trojans, ransomware) before they can corrupt system files or steal personal data.

4. What are some examples of good practices when selecting hardware and software?

Answer: Reviewing system requirements before software installation, purchasing hardware from reputable brands with warranty support, and using official distribution channels.

5. How can choosing compatible hardware and software enhance your computer experience?

Answer: It prevents system bottlenecks, reduces error messages, eliminates compatibility crashes, and ensures that devices operate at peak efficiency.

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

Answer: Strong, unique passwords prevent unauthorized access through brute-force or dictionary attacks, ensuring that if one account is compromised, other accounts remain secure.

7. What is the purpose of regular software updates?

Answer: Regular updates patch security vulnerabilities, fix software bugs, improve operational stability, and introduce new performance features.

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

Answer: By avoiding unknown email attachments, verifying website URLs (ensuring HTTPS), using ad-blockers, and running antivirus scans on downloaded files.

9. What is Two-Factor Authentication (2FA), and why is it useful?
Answer: 2FA is a security process where a user provides two distinct authentication factors to verify identity (e.g., a password plus an SMS code). It is useful because even if a password is stolen, unauthorized access is blocked without the second verification factor.
10. Why is it a good idea to avoid using public Wi-Fi for sensitive transactions?
Answer: Public Wi-Fi networks are typically unencrypted, making them vulnerable to packet sniffing and "man-in-the-middle" attacks where hackers can intercept passwords and financial data.
11. How can you verify if an email or message is a scam?
Answer: Check the sender's actual email address for irregularities, look for urgent threatening language, inspect for spelling errors, and avoid clicking unverified links.
12. Why is it important to be careful about what you share on social media?
Answer: Oversharing personal information (such as location, phone number, or travel schedules) exposes users to identity theft, stalking, and social engineering scams.
13. What should you do if you receive an email from an unknown sender asking for personal information?
Answer: Ignore or delete the email immediately, and never click links or reply with sensitive personal details (phishing attempt).
14. What is the purpose of privacy laws regarding your personal information?
Answer: Privacy laws legally obligate organizations to handle personal data responsibly, prohibiting unauthorized collection, misuse, or sale of user data.
15. How do privacy laws protect you from unauthorized access to your data?
Answer: They grant individuals rights to access, correct, or delete their personal data, and impose strict legal penalties on companies that fail to secure user databases.
16. What is the difference between copyright, trademarks, and patents?
Answer:

- **Copyright:** Protects original literary, artistic, or software works.
- **Trademark:** Protects brand names, logos, and commercial symbols.
- **Patent:** Protects novel inventions and industrial processes.

17. Why is it important to respect intellectual property rights?
Answer: Respecting intellectual property encourages innovation, compensates creators and inventors fairly, and prevents illegal piracy.
18. What is software piracy, and why is it harmful?
Answer: Software piracy is the unauthorized copying, distribution, or use of paid software. It is harmful because it deprives developers of revenue, discourages future software creation, and often exposes users to malware bundled into cracked files.
19. How can you identify reliable sources when researching online?
Answer: Check author credentials, evaluate publication reputation, look for citations, and cross-reference information across multiple established academic or news platforms.
20. What is one way to protect your privacy during online research?

Answer: Use private browsing (Incognito mode), clear cookies regularly, avoid logging into unnecessary personal accounts, and use secure VPN connections.

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

Answer: Spending excessive, uncontrollable hours online, neglecting academic/work responsibilities, feeling irritable when offline, and experiencing sleep deprivation.

Long Questions

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.

Answer:

- **Importance:** Responsible computer usage safeguards individuals and organizations against cyber threats, data breaches, and ethical violations.
- **Hardware & Software Selection:** Choosing compatible hardware ensures stable power distribution and optimal processing speeds, while selecting licensed software prevents operating system crashes, security flaws, and legal penalties.

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

Answer:

1. Install reputable antivirus and anti-malware software.
2. Enable automatic updates for operating systems and applications.
3. Use strong, unique passwords combined with Two-Factor Authentication (2FA).
4. Exercise caution regarding phishing emails, unverified downloads, and unsecured public Wi-Fi networks.
5. Back up critical data regularly to external storage or secure cloud services.

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.

Answer:

- **Concept & Importance:** Data ethics governs the moral obligations surrounding the collection, analysis, sharing, and storage of data, ensuring individuals' rights are protected.
- **Core Principles:**
    - **Transparency:** Organizations must clearly disclose what data they collect and how it will be used.
    - **Respect for Privacy:** Upholding user confidentiality and giving individuals control over their personal information.
    - **Accountability:** Data handlers must take full responsibility for protecting stored data and managing privacy breaches responsibly.

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?

Answer:

- **Impact:** Privacy laws establish mandatory legal frameworks that prevent corporations and government entities from exploiting personal data without explicit consent.
- **Safeguards:** Legislation like data protection bills regulates data localization, mandates secure storage encryption, empowers users to request data deletion, and penalizes unauthorized data sharing or commercial resale.

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

Answer:

- **Copyright:** Automatically grants creators exclusive rights to reproduce, distribute, or display their original works (books, music, software code) for a specific duration.
- **Trademarks:** Protects distinctive symbols, slogans, logos, or brand names used to distinguish commercial goods in the marketplace.
- **Patents:** Grants inventors exclusive legal rights to manufacture, use, or license novel mechanical, electrical, or software inventions for a limited period in exchange for public disclosure.

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?

Answer:

- **Responsibilities:** Users and businesses have a legal obligation to purchase valid licenses, attribute creators properly, and refrain from duplicating or distributing copyrighted assets without permission.
- **Consequences:** Software piracy and copyright infringement lead to severe legal penalties, heavy financial fines, corporate lawsuits, reputational damage, and heightened malware risks.

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?

Answer:

- **Credibility Evaluation:** Check the author's expertise, examine publication domain extensions (.edu, .gov), cross-reference multiple reputable sources, and check publication dates.
- **Privacy Risk Mitigation:** Use secure browsers, avoid sharing personal credentials on unverified survey sites, use ad-blockers, and clear browser caches.

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?

Answer:

- **Concept & Impact:** Internet addiction involves compulsive, excessive digital media usage that impairs daily functioning, academic performance, sleep cycles, and social relationships.

- **Balancing Strategies:**
    - **Recognizing Signs:** Identifying mood swings when offline, sleep deprivation, and loss of interest in hobbies.
    - **Setting Time Limits:** Utilizing app timers and scheduling fixed offline windows.
    - **Offline Activities:** Engaging in physical sports, reading printed books, and spending face-to-face time with family and friends to restore a healthy lifestyle balance.

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