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CLASS	9TH	CHAPTER	06
SUBJECT	COMPUTER	BOARD	FEDERAL

CHAPTER 6: IMPACTS OF COMPUTING

Q1. Select the best answer for the following (MCQs)

i. What does responsible use of hardware entail?

a) Using outdated software
b) Treating computer equipment with care and respect
c) Ignoring software updates
d) Sharing passwords with friends

- **Correct Answer:** b) Treating computer equipment with care and respect

ii. Which of the following is an example of appropriate use of software?

a) Downloading and using cracked software
b) Regularly updating software to the latest version
c) Sharing software licenses with multiple users
d) Disabling antivirus software for faster performance

- **Correct Answer:** b) Regularly updating software to the latest version

iii. Safe use of digital platforms includes:

a) Sharing personal information with anyone online
b) Using strong, unique passwords for each online account
c) Downloading files from unknown sources without scanning for malware
d) Accepting friend requests from strangers without verifying their identity

- **Correct Answer:** b) Using strong, unique passwords for each online account

iv. Which of the following is an example of inappropriate software use?

a) Using licensed software for personal projects
b) Respecting software copyrights and licenses
c) Modifying software code without permission from the developer
d) Updating software regularly to improve its performance

- **Correct Answer:** c) Modifying software code without permission from the developer

v. Which of the following is a potential harmful effect of social networking?

a) Promoting social awareness and activism
b) Facilitating cyberbullying and harassment
c) Fostering offline community engagement
d) Enhancing critical thinking skills

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- **Correct Answer:** b) Facilitating cyberbullying and harassment

vi. How can fake news be harmful in the context of computing innovations?

a) It encourages fact-checking and critical thinking.
b) It can manipulate public opinion and spread misinformation.
c) It fosters trust in credible news sources.
d) It has no impact on society.

- **Correct Answer:** b) It can manipulate public opinion and spread misinformation.

vii. In what way can social networking platforms positively impact businesses and entrepreneurs?

a) By decreasing the reach and visibility of businesses
b) By limiting customer engagement and feedback
c) By providing a platform for marketing, customer engagement, and networking
d) By increasing operational costs and inefficiencies

- **Correct Answer:** c) By providing a platform for marketing, customer engagement, and networking

viii. What is one potential beneficial effect of social networking platforms?

a) Enhanced personal privacy
b) Improved offline communication skills
c) Increased connectivity and networking opportunities
d) Reduced exposure to diverse viewpoints

- **Correct Answer:** c) Increased connectivity and networking opportunities

ix. What is an ethical concern related to computing?

- a) Increased accessibility to information
- b) Enhanced cybersecurity measures
- c) Privacy breaches and data misuse
- d) Improved healthcare through telemedicine
- **Correct Answer:** c) Privacy breaches and data misuse

x. What is a cultural impact of computing?

a) Preservation of traditional cultural practices and customs.
b) Homogenization of global culture with a single dominant culture.
c) Elimination of the need for cultural preservation efforts.
d) Reduced cultural diversity and innovation.

- **Correct Answer:** b) Homogenization of global culture with a single dominant culture.

xi. How does computing contribute to economic practices?

a) It increases manual labor jobs.
b) It has no impact on job markets.
c) It automates tasks, leading to job displacement but also creating new job opportunities.
d) It primarily benefits large corporations, neglecting small businesses.

- **Correct Answer:** c) It automates tasks, leading to job displacement but also creating new job opportunities.

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xii. Which of the following is a personal benefit of computing in healthcare?

a) Reduced access to medical information

b) Increased medical errors

c) Improved telemedicine and healthcare accessibility

d) Lower healthcare costs

- **Correct Answer:** c) Improved telemedicine and healthcare accessibility

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Q2. Write short answers to the following questions

1) Illustrate the responsible use of computer hardware by an individual.

Responsible hardware use involves maintaining physical equipment properly, keeping devices clean, using surge protectors, and properly shutting down systems. It ensures longevity, prevents electronic waste, and guarantees safe operation in both personal and professional environments.

2) What does appropriate software use entail?

Appropriate software use entails obeying software licenses, avoiding pirated or cracked programs, and installing legitimate updates. It promotes legal compliance, respects developer intellectual property rights, and protects systems from malware infections.

3) How do you stay safe while conducting data searches online?

Safe online data searches require using reputable search engines, avoiding suspicious links, and verifying website security certificates (HTTPS). Users should also deploy antivirus software and refrain from downloading unverified files from unknown sources.

4) Extract and enlist some key aspects of responsible social networking.

Key aspects include respecting user privacy, avoiding cyberbullying, verifying information before sharing, and maintaining civil online discourse. Practicing these behaviors fosters a safer, more positive, and respectful digital community for all participants.

5) Sketch the positive impacts of social networking in today's society.

Social networking improves global communication, bridges geographical distances, and empowers communities to share ideas and mobilize social causes. It also provides vital tools for business marketing, educational collaboration, and professional networking.

6) Relate fake news affecting our understanding of current events.

Fake news distorts public perception by presenting fabricated, biased, or sensationalized stories as factual journalism. This manipulation skews individual decision-making, polarizes communities, and undermines trust in legitimate media channels.

7) Summarize some of the adverse effects of social networking.

Adverse effects include severe privacy risks, cyberbullying, addiction, sleep deprivation, and the rapid spread of misinformation. Excessive usage is also closely linked to mental health challenges like anxiety, depression, and social isolation.

8) Interpret the dangers associated with the spread of fake news online.

The rapid circulation of fake news creates societal panic, incites violence, manipulates democratic elections, and discredits scientific or public health facts. It exploits human cognitive biases to destabilize trust in institutional authorities.

9) Examine the computing influence on personal privacy.

Modern computing enables massive collection, storage, and tracking of personal data by corporations and governments. While convenient for personalized services, this constant surveillance creates serious risks of identity theft, unauthorized profiling, and data breaches.

10) Criticize the role computing plays in shaping educational practices.

While computing increases access to global knowledge and e-learning tools, over-reliance on digital media can diminish traditional handwriting and deep reading skills. Furthermore, screen time distractions and unequal access to technology widen digital divides among students.

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Q3. Write long answers to the following questions

1) Identify the precautions that need to be taken to ensure the physical safety of computer hardware.

Protecting computer hardware is essential for ensuring device longevity, data safety, and user security. The primary precautions include:

- **Environmental Control:** Keep computer systems in clean, dust-free, and well-ventilated rooms to prevent overheating. Avoid exposing hardware to extreme temperatures, direct sunlight, and high humidity.
- **Electrical Protection:** Always plug computer equipment into surge protectors or Uninterruptible Power Supplies (UPS) to guard against voltage fluctuations, sudden power surges, and lightning strikes.
- **Proper Handling & Maintenance:** Clean screens and keyboards using approved microfiber cloths and specialized cleaning solutions. Never consume food or beverages near sensitive electronic equipment to avoid liquid spills and internal short circuits.
- **Cable Management:** Secure power cables and peripheral wires neatly to prevent tripping hazards, accidental disconnections, or physical strain on device ports.

2) Judge the meaning of using software legally and ethically.

Using software legally and ethically means respecting intellectual property laws, software licenses, and the moral rights of software developers.

- **Legal Compliance:** It requires purchasing authentic software licenses or utilizing open-source alternatives rather than downloading cracked, pirated, or unauthorized copies. Software piracy violates copyright laws and deprives creators of fair compensation.
- **Ethical Responsibility:** Ethical software use involves not reverse-engineering, modifying, or distributing proprietary code without explicit permission. It also means respecting terms of service agreements, avoiding corporate espionage, and refusing to deploy malicious software that harms networks or steals data. Upholding these standards fosters a fair digital economy that continuously rewards software innovation.

3) Express the ways users can recognize and protect themselves from online cheats and phishing attempts.

Phishing and online scams are deceptive techniques used by cybercriminals to steal sensitive personal or financial information.

- **Recognizing Phishing Attempts:** Look out for urgent or threatening language, spelling and grammar errors, generic greetings, mismatched sender email addresses, and suspicious hyperlinks or unsolicited file attachments.
- **Protection Strategies:**
    1. Never click links or download attachments from unknown or unverified senders.
    2. Enable Multi-Factor Authentication (MFA) across all important user accounts.
    3. Use strong, unique passwords and a reliable password manager.
    4. Regularly check website URLs for official security certificates (HTTPS) before entering credentials.

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4) Comment on the key ways in which social networking platforms have revolutionized communication and connectivity in the digital age. Additionally, deduce the positive impacts of these changes on society.

Social networking has fundamentally transformed how humanity communicates, interacts, and shares information globally.

- **Revolutionizing Communication:** Geographical borders no longer restrict conversations; voice, video, text, and media sharing happen instantaneously across continents. Platforms have transformed isolated individuals into connected global digital citizens.
- **Positive Impacts on Society:**
    - **Community Building:** People with niche hobbies, rare medical conditions, or shared interests can easily find supportive global communities.
    - **Social Awareness & Activism:** Social networks allow rapid mobilization for charitable causes, disaster relief, and human rights awareness.
    - **Economic Growth:** Small businesses and remote freelancers can market products globally at a fraction of traditional advertising costs.

5) Describe the risks associated with online gaming and social networking for children.

While digital platforms offer educational and recreational benefits, children face unique vulnerabilities online:

- **Cyberbullying & Harassment:** Anonymity online often encourages bullying, exclusion, and harassment among peers, severely impacting a child's mental health and self-esteem.
- **Privacy & Exploitation Risks:** Children often overshare personal information, making them easy targets for online predators, identity thieves, and malicious data harvesting.
- **Addiction & Health Issues:** Excessive gaming and social media use lead to sedentary lifestyles, obesity, sleep deprivation, and reduced attention spans. Dopamine loops engineered into apps can cause addictive behavioral patterns.
- **Exposure to Inappropriate Content:** Children can accidentally encounter violent, explicit, or age-inappropriate material without proper parental controls.

6) Devise steps for governments and businesses in leveraging computing to drive economic growth and innovation.

Governments and businesses must adopt strategic, forward-looking measures to harness computing for economic prosperity:

- **For Governments:**
    - **Digital Infrastructure Investment:** Build robust, high-speed broadband networks reaching rural and underserved areas.
    - **Educational Reform:** Integrate computer science, coding, and digital literacy into school curriculums from an early age.
    - **Regulatory Frameworks:** Establish clear data protection, cybersecurity, and intellectual property laws that encourage tech entrepreneurship while protecting citizens.

- **For Businesses:**
    - **Digital Transformation:** Adopt cloud computing, artificial intelligence, and automated data analytics to streamline operations and reduce overhead costs.
    - **Workforce Upskilling:** Train employees in modern digital tools to maximize productivity and adapt to technological shifts.
    - **R&D Investment:** Allocate resources to research innovative software solutions, e-commerce models, and customer-centric digital products.

7) Compare the impact of online platforms and algorithms on cultural diversity and the spread of global or local culture.

Online platforms and recommendation algorithms exert a profound, dual-natured influence on world cultures:

- **The Spread of Global Culture (Homogenization):** Algorithms are typically designed to maximize engagement by promoting viral, mainstream content. This often results in the dominance of Western or globally popular media, language, and trends, which can overshadow and erode unique local traditions, indigenous languages, and regional cultural practices.
- **Preservation and Promotion of Cultural Diversity:** Conversely, digital platforms allow minority or indigenous cultures to document, archive, and broadcast their unique music, art, and heritage to a global audience. Online niche communities help preserve endangered traditions that might otherwise fade away. Ultimately, while algorithms tend to homogenize mass media tastes, they simultaneously empower grassroots cultural preservation if creators actively leverage digital tools.

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