بِسۡمِ اللّٰہِ الرَّحۡمٰنِ الرَّحِیۡمِ

Quran Education Point

QuranEducationPoint.Com

Class	10th	Chapter	06
Subject	Computer Science	Board	Federal

CHAPTER 6: Impacts of Computing

Part 1: Multiple-Choice Questions (MCQs)

1. _____ is a key reason for being careful and responsible online?

- **Options:** a) To save money | b) To avoid technology addiction and protect personal information | c) To become more popular | d) To learn new skills
- **Answer:** b) To avoid technology addiction and protect personal information

2. Spending too much time online be harmful for?

- **Options:** a) Mental health and productivity | b) Physical fitness and diet | c) Shopping habits | d) Travel plans
- **Answer:** a) Mental health and productivity

3. Which of the following is NOT a way to protect personal information online?

- **Options:** a) Using strong passwords | b) Being alert for scams | c) Sharing your passwords with friends | d) Keeping privacy settings updated
- **Answer:** c) Sharing your passwords with friends

4. Technology addiction is well described by:

- **Options:** a) Using technology occasionally | b) Excessive use of digital devices | c) Avoiding all forms of technology | d) Only using technology for work purposes
- **Answer:** b) Excessive use of digital devices

5. What is a common result of excessive screen time?

- **Options:** a) Enhanced social skills | b) Social isolation and loneliness | c) Improved academic performance | d) Increased physical activity
- **Answer:** b) Social isolation and loneliness

6. Which of the following is a way to reduce technology addiction?

- **Options:** a) Increasing online gaming hours | b) Practicing mindful use of technology | c) Ignoring signs of addiction | d) Sharing personal information online
- **Answer:** b) Practicing mindful use of technology

7. Select one benefit of using the internet for good purposes?

- **Options:** a) Increasing online fraud | b) Access to educational resources | c) Spreading misinformation | d) Cyberbullying

- **Answer:** b) Access to educational resources

8. _____ of the following is a positive use of the internet?

- **Options:** a) Cybercrime | b) Online harassment | c) Supporting social meeting | d) Distributing illegal content
- **Answer:** c) Supporting social meeting

9. _____ is a way to protect your device from online threats?

- **Options:** a) Avoid using antivirus software | b) Ignore software updates | c) Use biometric authentication | d) Share passwords freely
- **Answer:** c) Use biometric authentication

10. Which method is a hardware method to protect devices?

- **Options:** a) Biometric authentication | b) Secure boot | c) Firewalls | d) All
- **Answer:** b) Secure boot

11. What is a public cloud?

- **Options:** a) A cloud environment used by one organization | b) A cloud service offered to the general public by a third-party provider | c) A private network for personal use | d) A secure boot process for devices
- **Answer:** b) A cloud service offered to the general public by a third-party provider

12. _____ is the primary goal of cybersecurity?

- **Options:** a) To increase Internet speed | b) To protect computer systems and networks | c) To develop new software applications | d) To create more social media platforms
- **Answer:** b) To protect computer systems and networks

13. Which of the following is an example of a legal online activity?

- **Options:** a) Hacking into a network to steal information | b) Tricking people through phishing scams | c) Developing a new mobile app | d) Deploying malware to disrupt systems
- **Answer:** c) Developing a new mobile app

14. Why is cybersecurity essential in the digital era?

- **Options:** a) It helps in faster data transmission | b) It reduces the need for technical support | c) It decreases the cost of internet services | d) It ensures that personal data is protected from malicious actors
- **Answer:** d) It ensures that personal data is protected from malicious actors

15. Role of students which can minimizing the digital divide?

- **Options:** a) Developing new gaming applications | b) Providing technology training and support to those who need it | c) Reducing the prices of digital devices | d) Creating more social media accounts
- **Answer:** b) Providing technology training and support to those who need it

بِسۡمِ اللّٰہِ الرَّحۡمٰنِ الرَّحِیۡمِ

Part 2: Short Response Questions (SRQs)

1. List the importance of safe internet use today?

- **Protection of Personal Data:** Keeps sensitive personal and financial information secure from identity thieves.
- **Prevention of Cyber Threats:** Protects devices and networks from malware, ransomware, and phishing attacks.
- **Mental and Physical Health:** Prevents screen fatigue, anxiety, and technology addiction caused by unmonitored usage.
- **Safe Learning and Productivity:** Ensures that internet usage remains focused on constructive educational, professional, and social benefits.

2. State four ways to protect personal information online?

- Use strong, unique passwords combined with two-factor authentication (2FA).
- Keep software, operating systems, and antivirus definitions updated.
- Exercise caution with privacy settings on social media and avoid sharing personal details publicly.
- Be alert for phishing links, suspicious emails, and unknown download sources.

3. Mention three benefits of cloud computing?

- **Cost Efficiency:** Eliminates the need to invest in expensive physical hardware and local storage infrastructure.
- **Accessibility & Flexibility:** Data and applications can be accessed from anywhere and any device with an internet connection.
- **Scalability:** Resources can be scaled up or down easily according to user or organizational demands.

4. Why is cybersecurity essential in today's digital era?

Cybersecurity is essential because our society relies heavily on digital systems for finance, governance, healthcare, and communication. As connectivity grows, so do cyber threats. Cybersecurity protects critical data, maintains privacy, prevents financial fraud, and ensures the stability and safety of national and international digital infrastructures.

5. Name three common types of cybercrimes.

- **Phishing:** Deceptive attempts to steal sensitive data by masquerading as a trustworthy entity.
- **Identity Theft:** Stealing personal information to impersonate someone else for financial or fraudulent gain.
- **Malware Attacks:** Deploying malicious software (viruses, trojans, ransomware) to damage or gain unauthorized access to computer systems.

6. What would you do if your friend faced cyberbullying?

- Offer emotional support, reassurance, and let them know it is not their fault.
- Advise them not to retaliate or reply to the bully.

نوٹس حاصل کرنے کے لیے QuranEducationPoint.com لکھ کر سرچ کریں۔

- Help them collect and save evidence by taking screenshots of the abusive messages or posts.
- Report and block the bully on the platform, and encourage/help them report the incident to trusted adults, school authorities, or cybercrime reporting portals.

نوٹس حاصل کرنے کے لیے QuranEducationPoint.com لکھ کر سرچ کریں۔

بِسۡمِ اللّٰہِ الرَّحۡمٰنِ الرَّحِیۡمِ

Part 3: Extended Response Questions (ERQs)

1. What are the impacts of cyberbullying and online harassment, and what strategies can be implemented to prevent them?

- **Impacts:**
  - **Psychological Effects:** Causes severe anxiety, depression, loss of self-esteem, and emotional distress.
  - **Academic Decline:** Victims often experience decreased concentration, poor academic performance, and school absenteeism.
  - **Social Withdrawal:** Victims may isolate themselves from friends, family, and social activities.
  - **Extreme Cases:** In severe instances, it can lead to chronic mental health struggles and self-harm.
- **Prevention Strategies:**
  - **Digital Literacy & Education:** Educating students, parents, and teachers about digital citizenship and online ethics.
  - **Strict Platform Policies:** Utilizing strict reporting tools, blocking features, and prompt moderation by platform administrators.
  - **Open Communication:** Encouraging youth to speak up and report harassment to parents or school counselors immediately.
  - **Legal Enforcement:** Enforcing stringent cybercrime laws and penalties against online harassers.

2. Describe the various threats that cybersecurity measures aim to defend against.

- **Malware:** Malicious software designed to infiltrate, damage, or disable computers and computer systems (e.g., viruses, worms, ransomware).
- **Phishing & Social Engineering:** Manipulating individuals into voluntarily handing over confidential information through spoofed emails or messages.
- **Denial of Service (DoS/DDoS) Attacks:** Overloading systems, servers, or networks with heavy traffic to render them unavailable to legitimate users.
- **Man-in-the-Middle (MitM) Attacks:** Intercepting communication between two parties to steal or alter data in transit.
- **Insider Threats:** Security risks originating from within the organization, such as disgruntled employees or negligent staff with legitimate system access.

3. Explain the role of cybercrime laws in addressing illegal activities conducted through digital tools.

- **Deterrence:** Cybercrime laws establish legal boundaries and severe penalties, deterring potential criminals from engaging in illegal online acts.
- **Protection of Citizens:** They safeguard individuals and businesses against fraud, identity theft, data breaches, and online harassment.

نوٹس حاصل کرنے کے لیے QuranEducationPoint.com لکھ کر سرچ کریں۔

- **Legal Framework for Law Enforcement:** They provide law enforcement agencies with the mandate and legal tools to investigate, trace, arrest, and prosecute cybercriminals.
- **International Cooperation:** Cybercrime laws enable cross-border collaboration and extradition treaties to track down hackers operating outside national jurisdictions.

4. Analyze the cultural impact of computing technologies. How do these technologies facilitate global connectivity and cultural exchange?

- **Global Connectivity:** Computing and the internet have removed geographical boundaries, allowing instant communication across continents via social media, video calls, and collaborative platforms.
- **Cultural Exchange:** People can easily share their traditions, music, art, languages, and values globally, fostering cross-cultural understanding and appreciation.
- **Preservation of Heritage:** Digital archives, online museums, and virtual reality allow cultures and historical artifacts to be preserved and shared worldwide.
- **Homogenization vs. Diversity:** While global connectivity promotes diversity, it can also lead to the dominance of certain mainstream cultures, presenting a challenge to the preservation of local or indigenous traditions.

5. Examine the effects of the digital divide on access to information. How does this divide affect education, employment, healthcare?

- **Access to Information:** The digital divide creates an inequality gap between those who have affordable, high-speed access to digital technology and the internet and those who do not, limiting marginalized groups' access to global knowledge.
- **Impact on Education:** Students lacking devices or internet connectivity struggle with remote learning, digital research, and modern skill development, lagging behind their peers.
- **Impact on Employment:** Modern job markets require digital literacy. Individuals without technology access face limited job opportunities, reduced income potential, and exclusion from remote work markets.
- **Impact on Healthcare:** The digital divide limits access to telemedicine, online health consultations, and crucial health information, resulting in disparities in health awareness and medical outcomes for rural or low-income populations.

QuranEducationPoint.com

نوٹس حاصل کرنے کے لیے QuranEducationPoint.com لکھ کر سرچ کریں۔