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Computer Science Grade 10 — Chapter 6

Impacts of Computing

by Public Library

Independent practice MCQs from the supplied Class 10 Computer Science notes pack. Total: 50 questions.

A. Important / Main Topics

1. What is technology addiction?

(A) Excessive and compulsive use of devices
(B) Occasional use of technology
(C) Using technology only for work
(D) Avoiding technology completely

Correct Answer: A

Explanation: Technology addiction, also known as digital or internet addiction, refers to the excessive and compulsive use of devices like smartphones, computers, video games, and social media.

2. Which of the following is a mental health challenge caused by technology addiction?

(A) Improved focus
(B) Depression and anxiety
(C) Better sleep
(D) Increased physical activity

Correct Answer: B

Explanation: Technology addiction can make feelings of depression and anxiety worse because of social comparison, cyberbullying, and online harassment.

3. What is cyberbullying?

(A) Using the internet to help others
(B) Sharing educational content online
(C) Using digital devices to hurt, harass, or intimidate others
(D) Playing online games

Correct Answer: C

Explanation: Cyberbullying is when someone uses the internet or digital devices to hurt, harass, or intimidate others.

4. Which of the following is a beneficial use of the internet?

(A) Cybercrime
(B) Online harassment
(C) Spreading misinformation
(D) Information and education

Correct Answer: D

Explanation: Information and education is a beneficial use of the internet, providing access to educational resources and knowledge.

5. What is spam?

(A) Unwanted junk email sent in bulk
(B) Important emails
(C) Educational newsletters
(D) Personal messages

Correct Answer: A

Explanation: Spam is unwanted junk email sent in bulk, which can be advertisement, marketing message, or even malware.

6. What is spyware?

(A) Software that helps you browse faster

(B) Software that secretly monitors and collects personal information
(C) Software that protects your device
(D) Software that creates documents

Correct Answer: B

Explanation: Spyware is software that spies on what you do on your device, takes your personal info, and sends it to unauthorized people.

7. What are cookies?

(A) Snacks for your computer
(B) Programs that speed up your computer
(C) Tiny files saved on your device to remember what you do online
(D) Hardware components

Correct Answer: C

Explanation: Cookies are tiny files saved on your device to remember what you do online; some are okay, but others collect information without asking.

8. What is the primary goal of cybersecurity?

(A) To increase internet speed
(B) To develop new software
(C) To create social media platforms
(D) To protect computer systems, networks, and data

Correct Answer: D

Explanation: Cybersecurity is the practice of protecting computer systems, networks, and data from unauthorized access, cyberattacks, and malicious activities.

9. Which of the following is a hardware method to protect devices?

(A) Biometric authentication
(B) Antivirus software
(C) Password management
(D) Data backup

Correct Answer: A

Explanation: Biometric authentication (fingerprint or facial recognition) is a hardware method that uses physical characteristics to verify identity.

10. What is a digital divide?

(A) A type of computer virus
(B) A gap between those with and without access to technology
(C) A software bug
(D) A network cable

Correct Answer: B

Explanation: The digital divide means some people or groups have less access to technology, like the internet, compared to others.

11. What is cloud computing?

(A) Storing data only on local devices
(B) A type of hardware
(C) Delivery of computing services over the internet
(D) A programming language

Correct Answer: C

Explanation: Cloud computing is the delivery of computing services such as servers, storage, database, networking, and software over the internet.

12. What is the primary purpose of a firewall?

(A) To speed up internet
(B) To store data
(C) To create documents

(D) To block unauthorized access to a network

Correct Answer: D

Explanation: A firewall acts as a barrier, blocking unwanted traffic from entering or leaving a network while allowing safe traffic to pass through.

13. What is the purpose of a data backup?

(A) To protect against data loss
(B) To delete files
(C) To increase internet speed
(D) To install software

Correct Answer: A

Explanation: Data backup is the practice of regularly saving copies of important data to prevent loss due to cyber threats or hardware failures.

14. What is a virtual private network (VPN)?

(A) A type of hardware
(B) A service that encrypts internet connections
(C) A programming language
(D) A database

Correct Answer: B

Explanation: A VPN encrypts your internet connection, making it difficult for cybercriminals to intercept your data.

15. What is the primary purpose of cybercrime laws?

(A) To promote internet speed
(B) To increase social media usage
(C) To stop illegal activities using computers and set punishments
(D) To develop new software

Correct Answer: C

Explanation: Cybercrime laws are rules made to stop illegal activities using computers or digital tools and set punishments for offenders.

16. Which of the following is a psychological effect of cyberbullying?

(A) Improved self-esteem
(B) Better academic performance
(C) Increased social activity
(D) Anxiety and depression

Correct Answer: D

Explanation: Anxiety and depression — this correctly answers the question.

17. What is the primary purpose of cybersecurity laws?

(A) To stop illegal activities using computers and set punishments
(B) To promote internet speed
(C) To increase social media usage
(D) To develop new software

Correct Answer: A

Explanation: Cybercrime laws define what cybercrimes are and set punishments for those who commit them.

18. Which of the following is an example of a phishing scam?

(A) A legitimate bank email
(B) A fake email pretending to be from a trustworthy source asking for personal info
(C) A newsletter subscription
(D) A software update notification

Correct Answer: B

Explanation: Phishing is a scam that tricks people into giving away personal information by pretending to be someone trustworthy.

19. What is a DDoS attack?

(A) Stealing personal information
(B) Sending spam emails
(C) Flooding a website with traffic to make it unusable
(D) Installing antivirus software

Correct Answer: C

Explanation: DDoS (Distributed Denial of Service) attacks flood websites with traffic to make them unusable.

20. Which hardware method uses physical characteristics to verify identity?

(A) Antivirus software
(B) Firewall
(C) VPN
(D) Biometric authentication

Correct Answer: D

Explanation: Biometric authentication uses physical characteristics such as fingerprints or facial recognition to verify identity.

21. What is the main purpose of a data backup?

(A) To protect against data loss
(B) To delete files
(C) To increase internet speed
(D) To install software

Correct Answer: A

Explanation: To protect against data loss — this correctly answers the question.

22. Which of the following is a dimension of the digital divide?

(A) Network Divide
(B) Access Divide
(C) Software Divide
(D) Hardware Divide

Correct Answer: B

Explanation: Access Divide — this correctly answers the question.

23. What is the main purpose of GDPR and CCPA?

(A) To increase internet speed
(B) To promote social media
(C) To regulate data privacy and protection
(D) To develop new hardware

Correct Answer: C

Explanation: GDPR and CCPA are laws that help people control their personal information and require companies to protect data more carefully.

24. Which of the following is a result of inequitable access to information?

(A) Equal opportunities for all
(B) Improved healthcare for everyone
(C) Increased job opportunities
(D) Widening social and economic inequality

Correct Answer: D

Explanation: Widening social and economic inequality — this correctly answers the question.

25. What is the difference between spam and spyware?

(A) Spam is unwanted email; spyware is monitoring software
(B) Spam is software; spyware is email
(C) Both are the same
(D) Spam is hardware; spyware is software

Correct Answer: A

Explanation: Spam is unwanted junk email sent in bulk. Spyware is software that secretly monitors and collects personal information.

B. Less Important / Secondary Topics

26. Explain the impact of cyberbullying on academic performance.

(A) Poor performance and lack of focus
(B) Improved grades
(C) Increased attendance
(D) Better concentration

Correct Answer: A

Explanation: Cyberbullying can make it hard for someone to focus on school or work, causing their performance to drop.

27. What are the two main types of cloud computing?

(A) Local and Remote
(B) Public and Private
(C) Wired and Wireless
(D) Hardware and Software

Correct Answer: B

Explanation: The two main types of cloud computing are public cloud and private cloud.

28. How does a VPN protect your online activities?

(A) By speeding up internet
(B) By storing data
(C) By encrypting internet connection and hiding IP address
(D) By creating documents

Correct Answer: C

Explanation: A VPN encrypts your internet connection, making it difficult for cybercriminals to intercept your data, and hides your IP address.

29. What is the digital divide and why is it important?

(A) A type of virus; affects computer speed
(B) A software bug; affects program performance
(C) A network cable; affects connectivity
(D) A gap in access to technology; affects education, employment, and healthcare

Correct Answer: D

Explanation: The digital divide means some people or groups have less access to technology, affecting education, employment, healthcare, and overall quality of life.

30. What is the primary purpose of cybersecurity?

(A) To protect computer systems, networks, and data
(B) To increase internet speed
(C) To develop new software applications
(D) To create more social media platforms

Correct Answer: A

Explanation: Cybersecurity is the practice of protecting computer systems, networks, and data from unauthorized access, cyberattacks, and malicious activities.

31. Which of the following is a legal online activity?

(A) Hacking into a network to steal information
(B) Developing a new mobile app
(C) Tricking people through phishing scams
(D) Deploying malware to disrupt systems

Correct Answer: B

Explanation: Developing a new mobile app is a legal online.

32. Why is cybersecurity essential in the digital era?

(A) It helps in faster data transmission
(B) It decreases the cost of internet services
(C) It ensures that personal data is protected from malicious actors
(D) It reduces the need for technical support

Correct Answer: C

Explanation: Cybersecurity is essential to protect personal data, financial records, and sensitive information from malicious actors.

33. What is the role of education in preventing cyberbullying?

(A) To ignore the problem
(B) To encourage bullying
(C) To blame the victims
(D) To promote digital literacy and raise awareness about consequences

Correct Answer: D

Explanation: To promote digital literacy and raise awareness about consequences — this correctly answers the question.

34. Which of the following is a psychological effect of cyberbullying?

(A) Anxiety and depression
(B) Improved self-esteem
(C) Better academic performance
(D) Increased social activity

Correct Answer: A

Explanation: Anxiety and depression — this correctly answers the question.

35. What is the primary purpose of a data backup strategy like the 3-2-1 rule?

(A) To delete files
(B) To ensure data is protected and recoverable
(C) To share data publicly
(D) To slow down the system

Correct Answer: B

Explanation: The 3-2-1 rule (3 copies, 2 different media, 1 offsite) ensures data is protected and recoverable in case of disaster.

36. Which of the following is an example of a social engineering attack?

(A) Installing antivirus
(B) Using a firewall
(C) Phishing emails that trick users into revealing information
(D) Backing up data

Correct Answer: C

Explanation: Phishing is a social engineering attack that tricks users into revealing personal information by pretending to be trustworthy.

37. What is the primary purpose of a Virtual Private Network (VPN)?

(A) To speed up internet
(B) To store files
(C) To create documents
(D) To encrypt internet connection and protect data

Correct Answer: D

Explanation: A VPN encrypts your internet connection, making it difficult for cybercriminals to intercept your data.

38. Which of the following is a consequence of inequitable access to information?

(A) Widening social and economic inequality

(B) Equal opportunities
(C) Improved healthcare for all
(D) Increased job opportunities

Correct Answer: A

Explanation: Widening social and economic inequality — this correctly answers the question.

39. In cloud computing, what does "scalability" mean?

(A) The ability to shrink hardware
(B) The ability to scale up or down based on needs
(C) The ability to delete data
(D) The ability to increase costs

Correct Answer: B

Explanation: The ability to scale up or down based on needs — this correctly answers the question.

40. What is the primary risk of using public Wi-Fi without a VPN?

(A) Faster internet
(B) Better security
(C) Data interception by cybercriminals
(D) Free internet access

Correct Answer: C

Explanation: Using public Wi-Fi without a VPN risks data interception by cybercriminals who can access unencrypted data.

41. Which of the following is a legal consequence of cyberbullying?

(A) No consequences
(B) Reward for the bully
(C) Ignoring the incident
(D) Legal action under cybercrime laws

Correct Answer: D

Explanation: Cyberbullying is a cybercrime and can lead to legal action under cybercrime laws.

42. What is the main purpose of a data backup strategy like the 3-2-1 rule?

(A) To ensure data is protected and recoverable
(B) To delete files
(C) To share data publicly
(D) To slow down the system

Correct Answer: A

Explanation: The 3-2-1 rule (3 copies, 2 different media, 1 offsite) ensures data is protected and recoverable in case of disaster.

43. What is the primary goal of the digital divide solutions?

(A) To increase inequality
(B) To ensure equitable access to technology for all
(C) To limit internet access
(D) To reduce digital literacy

Correct Answer: B

Explanation: To ensure equitable access to technology for all — this correctly answers the question.

44. Which of the following is a hardware method for protecting devices?

(A) Antivirus software
(B) Password manager
(C) Biometric authentication
(D) VPN

Correct Answer: C

Explanation: Biometric authentication (fingerprint or facial recognition) is a hardware method that uses physical characteristics to verify identity.

45. What is the main purpose of multi-factor authentication (MFA)?

(A) To make passwords shorter
(B) To share passwords
(C) To avoid passwords
(D) To add an extra layer of security

Correct Answer: D

Explanation: To add an extra layer of security — this correctly answers the question.

46. How does spyware affect a user's privacy and security?

(A) It secretly monitors and collects personal information
(B) It speeds up the device
(C) It protects the device
(D) It creates documents

Correct Answer: A

Explanation: It secretly monitors and collects personal information — this correctly answers the question.

47. Explain how a firewall protects a device or network.

(A) By speeding up internet
(B) By blocking unwanted traffic from entering or leaving a network
(C) By storing data
(D) By creating documents

Correct Answer: B

Explanation: A firewall acts as a barrier, blocking unwanted traffic from entering or leaving a network while allowing safe traffic to pass through.

48. What are the key aspects of behavioral segmentation?

(A) Age, gender, income
(B) Location, region, urban/rural
(C) Purchase frequency, brand loyalty, usage occasions, response to market stimuli
(D) Education, occupation

Correct Answer: C

Explanation: Purchase frequency, brand loyalty, usage occasions, response to market stimuli — this correctly answers the question.

49. Why is it important to use strong, unique passwords for each account?

(A) To make passwords easier to remember
(B) To share passwords easily
(C) To avoid using MFA
(D) To prevent multiple accounts from being hacked if one is compromised

Correct Answer: D

Explanation: Strong, unique passwords prevent multiple accounts from being hacked if one account is compromised.

50. Describe the role of education in preventing cyberbullying.

(A) To promote digital literacy and raise awareness about consequences
(B) To ignore the problem
(C) To encourage bullying
(D) To blame the victims

Correct Answer: A

Explanation: “To promote digital literacy and raise awareness about consequences” is correct: it matches the idea asked in the question (“Describe the role of education in preventing cyberbullying”), while the other choices do not.