Societal Impacts

Standard difficulty · 20 questions · 40 marks · Time: 36 minutes

Name: _____ Date: _____ Score: ____ / 40

Show your working for Sections B and C. Answers are on the last page — try every question first!

Section A — Choose the correct answer — 8 × 1 = 8 marks

1. A digital footprint is:
   (a) a kind of password
   (b) the size of a hard disk
   (c) a photo of a footprint
   (d) the trail of data a person leaves while using the Internet

2. Which cyber crime is this: a group keeps posting hurtful comments about a classmate online?
   (a) ransomware **(b)** identity theft **(c)** cyber bullying **(d)** hacking

3. What kind of digital footprint does this leave: a site recording the type of device you use?
   (a) no footprint **(b)** permanent deletion
   (c) active **(d)** passive

4. Which intellectual property right protects the logo of a shoe company?
   (a) trademark **(b)** patent **(c)** plagiarism **(d)** copyright

5. Which licence or status is this: the copyright has ended, so anyone may use the work freely?
   (a) free and open source software **(b)** CC BY-ND
   (c) public domain **(d)** CC BY-SA

6. Which “R” of e-waste management is this: selling a working tablet second-hand?
   (a) recycle **(b)** burn in the open
   (c) reduce **(d)** reuse

7. Which advice best helps with wrist pain from long typing?
   (a) keep the wrists straight and take short breaks
   (b) use a chair that supports the back, feet flat on the floor
   (c) keep the volume low and take listening breaks
   (d) look at something far away for 20 seconds every 20 minutes

8. Which of these breaks net etiquette?
   (a) trolling people in comments
   (b) checking a fact before forwarding it
   (c) logging out of a shared computer
   (d) reporting a bullying post instead of sharing it

Section B — Short answer — 8 × 2 = 16 marks

9. Differentiate between active and passive digital footprints.

10. Is the digital footprint active or passive? (a) a search engine storing your search history (b) posting a photo on a social media page

11. Name the right that protects (copyright, patent or trademark): (a) a slogan that identifies a firm's products (b) a painting or photograph

12. Name the cyber crime: (a) a fake website that copies a real login page to collect passwords (b) an office's files are encrypted by malware and a ransom is demanded

13. Which R of e-waste management (reduce, reuse or recycle) is this? (a) choosing one device that does several jobs instead of three gadgets (b) taking old batteries to an authorised collection centre to recover their metals

14. The 20-20-20 rule says: after every 20 minutes at a screen, look at something 20 feet away for 20 seconds. How many such breaks should a student take in 220 minutes of screen time, one at the end of every complete 20 minutes?

15. A strong password has at least 8 characters, with a capital letter, a small letter, a digit and a symbol. How many of these passwords are strong?
w*%9$6!&
E$!9w
**zfKtQR$qc
&u3hR
rE3at*v**7

16. A student spends 5 hours a day at a screen on each of 5 school days and 3 hours on each of the 2 weekend days. How many hours of screen time is that in the week?

Section C — Word problems — 4 × 4 = 16 marks

17. Explain any four kinds of cyber crime and one way to stay safe from each.

18. Name the cyber crime in each case, and give one way to stay safe from it.
(a) a message claims a prize has been won and asks for card details on a fake page
(b) someone breaks into a computer system without permission
(c) repeated threatening messages are sent to a person on a chat app

19. A school replaces 90 old computers. 9 still work and are given to other schools; 27 go to an authorised recycler; the rest are kept for spare parts. (a) What percentage is reused? (b) What percentage is recycled? (c) How many are kept for spare parts?

20. A strong password has at least 8 characters, with a capital letter, a small letter, a digit and a symbol. For each password, say whether it is strong; if not, give the rule it breaks.
(a) Sq6Vu5L4xkv
(b) *!yTSEPF&
(c) %!6J9!394
(d) 5d@45Q6Wt4

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Answer key

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Q	Answer	Working
1	**(d) the trail of data a person leaves while using the Internet**	—
2	**(c) cyber bullying**	—
3	**(d) passive**	—
4	**(a) trademark**	—
5	**(c) public domain**	—
6	**(d) reuse**	—
7	**(a) keep the wrists straight and take short breaks**	—
8	**(a) trolling people in comments**	it disrespects or harms others online
9	**An active footprint is data we share on purpose, such as posts and e-mails; a passive one is collected without our direct action, such as cookies, location and browsing history.**	—
10	**(a) passive (b) active**	—
11	**(a) trademark (b) copyright**	—
12	**(a) phishing (b) ransomware**	—
13	**(a) reduce (b) recycle**	—
14	**11**	220 ÷ 20 = 11 complete blocks of 20 minutes
15	**1**	w*%9$6!&: no capital letter; E$!9w: fewer than 8 characters; **zfKtQR$qc: no digit; &u3hR: fewer than 8 characters; rE3at*v**7: strong
16	**31 hours**	5 × 5 + 2 × 3
17	**Phishing: fake messages asking for details; check senders and never share OTPs. Cyber bullying: online harassment; block, keep evidence and report. Hacking: unauthorised access; strong passwords and updates. Identity theft: misuse of personal data; share little personal information. Ransomware: files locked for money; keep backups.**	one mark each
18	**(a) phishing: check the sender and the web address, and never enter a password or OTP from a link; (b) hacking: use strong passwords, two-factor authentication and up-to-date**	any sensible safety step earns the mark; never how to commit the crime

Q	Answer	Working
	software; (c) cyber bullying: do not reply; keep evidence, block and report the bully, and tell a trusted adult	
19	**(a) 10%; (b) 30%; (c) 54**	(a) 9 ÷ 90 × 100; (c) 90 − 9 − 27
20	**(a) weak: no symbol; (b) weak: no digit; (c) weak: no small letter; (d) strong**	check the length, then each kind of character