

IGCSE Computer Science

Name: _____ Score: _____

1. What is the difference between the internet and the world wide web?
 - ☐ the web replaced the internet
 - ☐ they are exactly the same
 - ☐ the internet is the network; the web is the websites you view on it
 - ☐ the web is the network; the internet is the websites
2. A digital currency is:
 - ☐ a paper banknote that can be scanned online
 - ☐ money that exists only in electronic form
 - ☐ a type of cookie that stores spending limits
 - ☐ a special kind of coin with a computer chip in it
3. A brute force attack works by:
 - ☐ flooding a server with requests until it stops responding
 - ☐ trying many passwords very quickly until the right one is found
 - ☐ listening in on a network to capture the password
 - ☐ sending a fake email that asks for the password
4. A web browser's job is to:
 - ☐ route packets between networks
 - ☐ assign IP addresses
 - ☐ render a page's HTML and display it
 - ☐ store the website permanently
5. A blockchain is:
 - ☐ a single private database kept by one bank
 - ☐ a physical chain that links computers together
 - ☐ a type of web browser used for payments
 - ☐ a shared digital ledger of transactions, copied across many computers
6. Phishing tricks you with fake messages into giving away details, while pharming silently redirects you to a fake site even when you type the correct address.
 - ☐ True ☐ False

7. A session cookie is saved on the device between visits, while a persistent cookie is deleted when the browser closes.

☐ True ☐ False

8. A shared, tamper-resistant digital ledger of transactions is called a _____.

9. A DDoS attack:

- ☐ steals a password by guessing many combinations
- ☐ redirects users to a fake website to collect data
- ☐ installs a virus that deletes files on the server
- ☐ floods a server with so many requests that it cannot respond

10. The domain name service (DNS) is used to:

- ☐ store all the web pages so that they load quickly
- ☐ encrypt the connection between browser and server
- ☐ block adverts before a web page is displayed
- ☐ find the IP address that matches a web address

1. the internet is the network; the web is the websites you view on it

The internet is the worldwide infrastructure; the WWW is one service (websites) running on it.

2. money that exists only in electronic form

Digital currency has no physical coins/notes; it is stored and moved by computers.

3. trying many passwords very quickly until the right one is found

Brute force tries password after password until it gets in.

4. render a page's HTML and display it

The browser fetches the HTML and renders it into the page you see.

5. a shared digital ledger of transactions, copied across many computers

Being shared across many computers means no one controls it and it is hard to alter.

6. True

Both aim to steal credentials, but phishing needs you to click; pharming poisons the address lookup itself.

7. False

False. They are swapped: a persistent cookie is saved and remembers you between visits, while a session cookie is deleted when you close the browser.

8. blockchain

It underpins digital currencies.

9. floods a server with so many requests that it cannot respond

A distributed denial-of-service overwhelms a server so genuine users can't reach the site.

10. find the IP address that matches a web address

DNS turns the human-readable domain name into the numeric IP address the browser needs.