ENGLAND GCSE COMPUTER SCIENCE EDEXCEL · UNIT 3 · 25 QUESTIONS

Computers and Networks — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **A router sends data in packets. What does TCP do?**

- A It gives each computer on a network an address
- B It encrypts data so it cannot be read if stolen, in some situations
- C It splits data into packets and checks they arrive
- D It shows web pages to the user in a browser

Understand It with Pulse | Flag a mistake

2 **A smartphone stores photos in the cloud. What is a disadvantage of cloud storage?**

- A Files can only be stored in one place at a time
- B Files take up space on the computer hard disk
- C Files cannot be reached with no internet access
- D Files are stored on a disk that can break

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3 **A laptop has a solid state drive. What is a solid state drive?**

- A Storage on a remote computer reached over the internet
- B Magnetic storage that stores data on spinning disks
- C Electronic storage with no moving parts inside
- D Optical storage that uses a laser to read data

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4 **A server sends web pages to a browser. What is HTTP used for?**

- A Sending web pages over the internet
- B Giving computers on a network an address
- C Sending email between mail servers
- D Sending files between computers

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5 **A smartwatch receives a software update. Why should software be updated?**

- A Updates remove the need for anti-malware software, in some situations
- B Updates make files take up less storage space
- C Updates fix security holes that attackers could use
- D Updates make old hardware run like new hardware

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6 **A printer receives a file to print over the network. What is an IP address?**

- A A unique number that identifies a computer on a network
- B A name given to a website on the internet, in some situations
- C A password used to log on to a network
- D A unique number built into a network card

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7 **A file of 50 megabytes is downloaded at 25 megabits per second. How many seconds does it take?**

- A 17
- B 160
- C 8
- D 16

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8 **Why are embedded systems often used in safety critical devices?**

- A They can run any program a user asks for
- B They are cheap because they have no processor, in some situations
- C They are reliable because they do one job well
- D They never need to be updated or maintained

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9 **What is a brute force attack?**

A Tricking someone in person into giving away details

B Trying many passwords until the right one is found

C Sending fake messages to trick people into details

D Flooding a network with traffic to stop it working

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10 **What is virtual memory?**

A Memory inside the CPU that holds data used often

B Part of secondary storage used as if it were extra RAM

C Part of RAM used as if it were secondary storage

D Memory that holds the start up instructions of a computer

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11 **What happens to performance if the clock speed of a CPU increases?**

- **A** More instructions can be carried out each second
- **B** The CPU uses less electricity when it runs
- **C** More data can be stored in main memory
- **D** Fewer instructions can be carried out each second

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12 **A CPU runs at 5 gigahertz. How many cycles does it carry out each second?**

- **A** 5,000,000,000
- **B** 50,000,000,000
- **C** 5,000,000
- **D** 500,000,000

Understand It with Pulse | Flag a mistake

13 **What is a solid state drive?**

A Optical storage that uses a laser to read data

B Magnetic storage that stores data on spinning disks

C Storage on a remote computer reached over the internet

D Electronic storage with no moving parts inside

Understand It with Pulse | Flag a mistake

14 **A connection runs at 64 megabits per second for 25 seconds. How many megabytes are downloaded?**

A 100

B 2,000

C 210

D 200

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15 **How many megabytes are in 16 gigabytes?**

A 1,638

B 16,384

C 16,000

D 163,840

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16 **What is multitasking?**

A Running one program on more than one computer, in some situations

B Connecting more than one user to a network

C Running more than one program at the same time

D Saving more than one file at the same time

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17 What does IP do?

- A It gives each computer on a network an address and routes packets
- B It encrypts data so it cannot be read if stolen
- C It shows web pages to the user in a browser
- D It splits data into packets and checks they arrive, in some situations

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18 What does a firewall do?

- A It encrypts data so it cannot be read if stolen
- B It backs up files so they can be restored later, in some situations
- C It checks network traffic and blocks what is not allowed
- D It checks files on a computer for malware

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19 **A file of 90 megabytes is downloaded in 30 seconds. What is the bandwidth in megabits per second?**

- A 24
- B 25
- C 12
- D 240

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20 **A file of 15000 bytes is split into packets of 5000 bytes each. How many packets are there?**

- A 4
- B 30
- C 3
- D 2

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21 **What is an advantage of a wireless network over a wired network?**

- **A** It is usually faster and more reliable
- **B** It never suffers from interference from other devices
- **C** It cannot be reached by anyone outside the building
- **D** Devices can move around freely with no cables

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22 **What can slow down a wireless network?**

- **A** Too little storage space on the devices, in some situations
- **B** Too few cables connecting the devices
- **C** Too many computers switched off at once
- **D** Interference from other devices and walls in the way

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23 **How many gigabytes are in 8 terabytes?**

- A 819
- B 81,920
- C 8,192
- D 8,000

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24 **A file of 10 megabytes is downloaded at 2 megabits per second. How many seconds does it take?**

- A 20
- B 41
- C 40
- D 400

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25

What is an embedded system?

A. A computer that can do any job a user asks of it

B. A computer built into a device to do one job

C. A computer that stores files for many users

D. A computer that connects devices to a network

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Flag a mistake

ANSWER KEY

1. C
2. C
3. C
4. A
5. C
6. A
7. D
8. C
9. B
10. B
11. A
12. A
13. D
14. D
15. B
16. C
17. A
18. C
19. A
20. C
21. D
22. D
23. C
24. C
25. B

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