**PAGE 8**

1. **Read the following text.**
2. **Answer the following questions according to the information in the text:**
   1. Peripheral card slots are used for attaching cards, videos cards and sometimes for installing expansion cards.
   2. CPU is the brain of the computer; it is responsible for carrying out all the necessary calculations.
   3. The major components of a CPU are the control unit and the arithmetic logic unit.
3. **True or False:**
   1. TRUE.
   2. TRUE.
   3. FALSE. CU causes the circuits and the rest of the components to execute stored program instructions.
   4. FALSE. It isn’t the only thing, but it is partly.
   5. TRUE.
4. **Find words in the text to complete these definitions:**
   1. Port.
   2. Slot.
   3. Expansion card.
   4. Heat sink and the fan.
   5. Clock speed.
5. **Find synonyms for these words:**
   1. Cables.
   2. Connected.
   3. Function.
   4. Features.
   5. Carry out.

**PAGE 10**

1. **Complete the text.**
   1. starts.
   2. finishes.
   3. Is working.
   4. developing.
   5. selling.
   6. Is working.
   7. are creating.
   8. Allows.
   9. Click.
   10. Determines.
   11. Provides.
   12. are becoming.
   13. Is.
   14. Spends.
   15. Goes.
   16. Is going.
   17. Are having.
   18. Are launching.
2. **Write questions for these answers.**
   1. Where does Mike print the documents?
   2. When is the team meeting?
   3. Why are you looking for a new PC?
   4. Who maintains the computers in our company?
3. **Complete the following sentences with the correct form.**
   1. Has already frozen.
   2. Have you tried…
   3. Have lost.
   4. Have had.
   5. Has stolen.
   6. Has released.
   7. Have already spoken. Have not solved.
4. **Write sentences using the prompts.**
   1. Pete has worked here since 2008.
   2. She has had this laptop for more than 3 years.
   3. The company has not posted a message on its Twitter profile for the past two weeks.
   4. We have not updated the antivirus software since last year.
   5. We have not upgraded my workstation since I bought it.
5. **Fill in the blanks with the correct forms.**
   1. Are you doing.
   2. I am waiting.
   3. Walk.
   4. Live.
   5. Think.
   6. Is talking.
   7. Know.
   8. Studies.
   9. Is studying.
   10. Loves.
   11. Don`t speak.
   12. Speaks.
   13. Is working.
   14. Travels.
   15. Don’t speak.
   16. Has.
   17. Does he live.
   18. Is staying.
   19. Has found.
   20. Has already met.
   21. Has never lived.

**PAGE 12**

1. **Complete the table.**

|  |  |  |
| --- | --- | --- |
|  | **My computer** | **My partner’s computer** |
| **Processor speed** | 3.60 GHz | 3.80 GHz |
| **RAM memory** | 8,00 GB | 16,00 GB |
| **Hard Drive capacity** | 512Gb | 1Tb |
| **Operating System** | Windows 11 | Linux Ubuntu 22.04 |
| **Other features** | Web cam  External hard disk Desktop microphone | Mechanic keyboard  Optical Mouse Black headsets |
| **Price** | 650€ | 1.200€ |

1. **Answer questions.**
   1. Conversation 1:
      1. Matt buys a new computer because He was tired of carrying a heavy laptop.
      2. 1Hz and 16Gb
      3. 295€. It’s very expensive.
   2. Conversation 2:
      1. Listening to music, reading Twitter.
      2. He likes the latest technology.
      3. Because it is very expensive, and James has not a job.
   3. Conversation 3:
      1. 3.7GHz
      2. 8Gb
      3. 500Gb
      4. Windows 8
      5. 1150€
      6. 3 years.

**PAGE 13**

1. **Complete the conversation.**
   1. For
   2. Want
   3. Expensive
   4. Reliable
   5. Capacity
   6. Come
   7. Warranty

**PAGE 15**

1. **Complete the text.**
   1. Software
   2. Hardware
   3. Programs
   4. Smartphone
   5. MacOS
   6. Layers
   7. Kernel
   8. GUI
   9. WIMPP
   10. Manage
   11. Hidden
2. **True or false?**
   1. False, Kernel is the core of the OS.
   2. False, GUI is the graphical user interface.
   3. True, smartphones include an OS which provides basic functionalities.
   4. False, the structure has several layers.
   5. False, Windows is an OS like Linux or MacOS
   6. True, because it’s hidden.

**PAGE 17**

1. **Answer the following questions:**
   1. Because his life is plenty of coincidences.
   2. Linux is written in C, it´s open-source and it has a GPL license.
   3. Any person can change the code and distribute it.
   4. He was a mathematician and statistician.
   5. Because he was annoyed by the shortcomings of this OS.
   6. Not the only supervisor.
   7. Torvalds received an email from Tove, who was the national karate champion.
2. **True or false?**
   1. False. Minix was created by one person.
   2. True
   3. True
   4. False. Torvalds only inherited his name.
   5. False. Any person can change the code.
3. **Look for words in the text that leave these meanings:**
   1. Countless
   2. Modify
   3. Well-known
   4. Annoyed
   5. Supervisor of
4. **Find the words in the text that have opposite meanings:**
   1. Stable
   2. Cheaper
   3. Outstanding
   4. Improved
   5. Shortcomings
5. **Define these concepts in your own words:**
   1. OS is the software that communicates hardware with the rest of the programs.
   2. C is a computer language for programming.
   3. Kernel is the core of the operating system.
   4. Unix is an OS. It is Linux’s father.
   5. GPL is a license that allows modifying and distributing the software.
6. **Write a summary of the text:**

Linus Torvalds is a person who studied computer science at the University. His name comes from the Chemistry Nobel Prize, Linus Pauling.

He created the most used OS, Linux, which is written in C.

He met his wife in class because he was her professor, and she sent him an email asking for a date.

**PAGE 21**

1. **Answer the following questions:**
   1. Windows 8 and Linux.
   2. Andy.
2. **True or false:**
   1. False. Brenda is interested in Andy’s summer,
   2. False. Andy spends a fortnight in Ibiza.
   3. False. Andy wants to install the OS as soon as possible.
   4. False. First Windows and later Linux.
   5. True.
   6. False. Andy is going for a coffee.
3. **Complete answers:**
   1. 20.
   2. Using a program called Clonezilla.
   3. Because she was sick.
   4. A1.
   5. Because he is going for a coffee.
4. **Write a proper definition or a synonym:**
   1. It’s a pronoun that means two objects or people at the same time.
   2. It’s a verb that means beginning the OS in the pc.
   3. It’s a program which can boot up several OS in only one pc.
   4. It’s a verb that means making an exact copy.
   5. Tanned is an adjective that means you have been exposed to sun a lot of time and your skin becomes brown.

**PAGE 19**

1. **Read the table and complete the rules:**
   1. Past simple.
   2. Past continuous.
   3. Past perfect.
2. **Complete the text about Marconi:**
   1. Was born.
   2. Was.
   3. Developed
   4. Founded
   5. Sent
   6. Shared
   7. Died
3. **Make the questions in past for these answers:**
   1. Where was Marconi born?
   2. What did Marconi create?
   3. Who was Marconi’s teacher?
   4. How many patents did Marconi hold?
   5. Why did Marconi invent telephone?

**PAGE 20**

1. **Complete the following sentences:**
   1. Was studying. Came across.
   2. Were installing. Entered
   3. Was talking. went dead.
   4. Got. Was already taking off.
   5. Were talking. Arrived
   6. Was playing. Was doing.
2. **Complete the following sentences:**
   1. Went. Had already left.
   2. Had repaired. Got.
   3. Went. Had already finished.
   4. Brought. Had not ordered.
   5. Had tried. Made.
3. **Complete the following sentences:**
   1. Ago.
   2. When.
   3. Never.
   4. While.
   5. In. Before
4. **Complete the text with past simple, past continuous or past perfect:**
   1. Came.
   2. Had phoned.
   3. Didn’t work.
   4. Saw.
   5. Said.
   6. Had
   7. Had used.
   8. Was repairing.
   9. Was watching.
   10. Has crashed.
   11. Have died.
   12. Told.
   13. Has already finished.
   14. Paid.
   15. Gave.

**PAGE 23**

1. **Find synonyms in the text for these words:**
   1. Rich == wealthy.
   2. Layer == barrister.
   3. Earned == obtained.
   4. Speed == velocity.
2. **Look up these words in a dictionary and write a definition or synonym.**
   1. Ph.D.: higher education in physics.
   2. Professor: teacher at the university.
   3. Wave: A disturbance that propagates through a medium, transporting energy but not mass.
   4. Blood poisoning: An outdated term for sepsis.
   5. Length: the measurement of the maximum distance between two points.
3. **Write a short biography of a person that has been important and influential in the world of IT and Telecommunications.**

**Steve Jobs**

Steven Paul Jobs was born in San Francisco, California, on February 24, 1955. He was adopted by Paul and Clara Jobs, who raised him in Mountain View, California. Jobs was a bright and curious child, but he also had dyslexia and social anxiety. He dropped out of Reed College after one semester, but he continued to educate himself through self-study.

In 1976, Jobs co-founded Apple Computer with his friend Steve Wozniak. The company quickly became a leader in the personal computer market. He was known for his innovative products, his attention to detail, and his demanding personality.

Jobs was also a controversial figure. He was criticized for his treatment of employees, his secrecy, and his personal life. He was divorced twice and had four children.

Jobs's professional achievements are numerous. He was responsible for the development of some of the most iconic products of the 20th century, including the Apple II, the Macintosh, the iPod, the iPhone, and the iPad. These products revolutionized the way people use computers, music, and mobile devices.

He was also a successful businessman leading Apple through a period of growth and innovation, and he helped the company become one of the most valuable in the world. He was a technology visionary man.

His legacy is very complex. He is remembered as a brilliant innovator, a demanding perfectionist, and a controversial figure. His impact on the world of technology is undeniable, and his products continue to be used and loved by millions of people around the world.

Jobs's death on October 5, 2011, was a major loss for the technology industry. He was a true visionary who changed the way we live and work. His legacy will continue to inspire and influence people for generations to come.

**PAGE 24**

1. **Read the text again and label the elements of the network using the words in bold:**
   1. Server.
   2. Wireless access point.
   3. Switch.
   4. Broadband modem.
   5. Firewall
2. **Write the definitions for the words in bold:**
   1. Server is a computer which transmits the information to the other computers.
   2. Wireless access point is a device which allows to connect the other devices.
   3. Broadband modem is a device that converts digital signals into analog signals.
   4. Switch is a device that commutes the information.
   5. Firewall is a software which makes sure all data you receive.
3. **How much do you know about networks? Choose the correct options:**
   1. B
   2. B
   3. B
   4. A
   5. C
   6. A
   7. A
   8. B
4. **Fill in the blanks with the correct words in the box:**
   1. Configure
   2. Address
   3. Network
   4. Sharing
   5. Turn
   6. Cables
5. **Complete these sentences with the correct prepositions to form phrasal verbs. Then match each phrasal verb to its definition.**
   1. Up 🡪 3
   2. In, On 🡪 2, 4
   3. In 🡪1

**PAGE 30**

1. **Listen to conversation one and answer the following questions:**
   1. Problems with Wi-Fi connection.
   2. Yesterday.
   3. He has switched the router off and on several times.
   4. It’s a key with an antenna with signal .
   5. Fn+F1
2. **Listen to conversation two again and fill in the gaps to complete the summary of the conversation:**
   1. drops
   2. turn
   3. screensaver
   4. channel
   5. WRT54G
   6. <http://192.168.1.1> search bar
   7. Technician
3. **The word switch can have many different meanings. Read these extracts from the conversation and give a synonym for the word switch in each sentence:**
   1. I have also switched it off and on several times. (turned)
   2. You must have an on/off switch somewhere on your keyboard. (key)
   3. Try switching to a different channel. (changing)

**PAGE 28**

1. **There is one mistake in each sentence. Correct them:**
   1. ~~to~~.
   2. Has to.
   3. You don’t have to.
   4. Mustn’t .
   5. Mustn’t
2. **Complete the following sentences. Use must, mustn’t, have to and don’t have to:**
   1. Have to
   2. Has to
   3. Mustn’t
   4. Don’t have to
   5. Must
   6. Doesn’t have to
   7. Must
   8. Must
   9. Must
3. **Rewrite the following sentences using must, mustn’t, have to and don’t have to.**
   1. mustn’t
   2. don’t have
   3. mustn’t
   4. don’t have
   5. must
   6. must

**PAGE 29**

1. **Write sentences with should, shouldn’t and ought to. More than one answer may be possible:**
   1. You should make
   2. You shouldn’t pull out
   3. You ought to scan
   4. You should turn off
   5. You ought to install and update
2. **Rewrite the following sentences using may, may not, should and shouldn’t:**
   1. It may rain today
   2. I may get
   3. You should format
   4. It may be
   5. You shouldn’t open
   6. I may not get
3. **Underline the correct modal verb in each sentence:**
   1. May be able
   2. I have to
   3. You should network
   4. You should change
   5. You don’t have to
4. **Fill the gaps with the correct form of the modals from the box below. There are two of them that you don’t need use:**
   1. Ought
   2. Must
   3. Shouldn’t
   4. Might

**PAGE 32**

1. **Write a reply to Angela’s message giving advice about how to prevent health problems associated with computer use:**

Dear Angela,

First of all, it is very important to considerer the ergonomics of your workstation to prevent the health issues you're experiencing. You must ensure that your chair is adjustable with dynamic support, allowing your feet to rest flat on the floor or on a footrest, and your back should be straight.

It would be a good idea to position your monitor so that the top is at eye level; this can significantly reduce the neck pain you described.

In my opinion, you should also keep your wrists flat and straight in relation to your forearms to avoid further complications.

I think the best thing for you to do is to take short breaks regularly. You should stand up, stretch, and focus your eyes on distant objects to give them a rest from your screen, which is important for preventing eye strain\*\*.

I advise you to not underestimate\*\* the value of these adjustments. Furthermore, you must ensure your arms and elbows are relaxed and close to your body to help prevent muscle fatigue.

Make sure you adjust your chair and desk according to these recommendations. You should always maintain a correct posture, as this will help alleviate the symptoms you have mentioned. Integrating these practices into your daily routine is something you must do to enjoy the benefits of technology without compromising your health.

Best wishes,

Richard Yuste.

\*\* strain: fatiga

\*\* underestimate: subestimar

**PAGE 27**

1. **Read the text again and decide if the following statements are true or false:**
   1. **A LAN is a large network covering cities, countries and continents.**

A LAN is a small network covering offices, schools or residential homes.

* 1. **In a peer-to-peer network any client computer also be a supplier.**

True.

* 1. **In ring networks, the flow data is unidirectional.**

True

* 1. **Hubs cand send information faster than switches.**

A hub is slower as it sends every packet of data to every device.

1. **Answer these questions according to the information in the text. Use your own words:**
   1. **What is the main difference between a LAN and a WAN?**

A WAN is a large network, and a LAN is small.

* 1. **Why are bus networks slow?**

Because each device sends packets one after the other.

* 1. **Why are star networks expensive?**

Because this network requires a lot of cable.

1. **Complete the table:**

|  |  |  |
| --- | --- | --- |
|  | **Advantages** | **Disadvantages** |
| **Bus** | Cheap and easy to install | Slow |
| **Ring** | Can transfer data quickly.  No data collisions. | If the cable breaks the network doesn’t’ run. |
| **Star** | Reliable and fast | Expensive |

1. **Find the underline words in the text and match them with their synonyms in the box. There are two words that you don’t need to use.**
   1. **Connected:** linked
   2. **Node:** device
   3. **Layout:** structure
   4. **Flows:** travels
   5. **Require:** need

**PAGE 33**

1. **Match the words in bold from the previous text with the following definitions or examples:**
2. [**www.google.com**](http://www.google.com)

domain name

1. **A system of interconnected computers or other devices.**

Network

1. **209.85.229.99**

IP address

1. **A private network.**

Intranet

1. **The set of rules that computers follow.**

Protocol

1. **Protocol for computers.**

TCP/IP

1. **Read the definition of gateway and complete it with the missing words:**
2. Bridge
3. Networks
4. Data
5. Email
6. Log
7. connection
8. **Read the definition of gateway and complete it with the missing words:**
9. Newsgroup
10. URL
11. www
12. search engine.
13. router
14. browser
15. email
16. DNS
17. HTML

**PAGE 35**

1. **Read the text and answer the following questions:**
2. **Why may it take long to create the Web 3.0?**

Because changes require time and precision

1. **Is the name of the web a marketing strategy? Why?**

Because it is popular, attractive, and catchy.

1. **Mention two things you might be able to do with Web 3.0**

You can find movies and food easier and faster.

1. **Can a computer know about your tastes? How?**

It shows you your last searches.

1. **What is the main reason for the emergence of Web 3.0?**

The increasing popularity of mobile devices and the use of the internet for entertainment in mobile phone.

**PAGE 36**

1. **Say the sentences are true or false. Explain the false ones:**
2. TRUE
3. Web 3.0 is about the interaction between the web and the user.
4. TRUE
5. TRUE
6. Web 3.0 will know your preferences and it will be able to offer you the best option for that.
7. TRUE