

SEGUNDA LINGUA ESTRANXEIRA: INGLÉS

Read the instructions to the questions very carefully and write all your answers in English. Answer **ONLY 4 OF THE 6 QUESTIONS BELOW**. If you answer more than four questions, **only the first four will be marked**.

QUESTION 1. READ TEXT A AND ANSWER THE THREE QUESTIONS BELOW: (2.5 points)

- 1.1. Write a summary of the text in English, including the most important points, using your own words. (Approximately 50 words; **0.75 points**).
- 1.2. Indicate whether the following statements are true or false (T/F) according to the text. Copy that part (and ONLY that part) of the text which justifies your answer. (**1 point**)
- Experts used to believe that parents could influence their children's hobbies.
 - Baby girls seem more interested in people than boys are.
 - People with a type S brain might be good engineers.
 - Male and female brains never share any features.
- 1.3. Find words or phrases in the text that correspond in meaning to the words and definitions given here. (0.75 points)
- | | | |
|---------------------------|-------------|---------------------------|
| a. cared for and educated | b. cheering | c. child learning to walk |
|---------------------------|-------------|---------------------------|

TEXT A

For a long time, experts thought that differences between male and female interests depended on how parents and indeed society brought up their children. However, when we look at babies, we see that boys and girls have interests which we can call typically "male" or "female" from a very early age. A baby girl of twelve months is sympathetic when she sees a sad or worried face. She looks sad and makes comforting sounds. Baby girls also make more eye contact and look longer at other people. Boys of the same age look longer at mechanical objects. Later, when they become toddlers, boys usually enjoy putting things together and building things. Boys are often more selfish and aggressive when they play with other children while girls are better at joining in with others.

So where do these differences between male and female behaviour come from? Although it is true that culture and upbringing play an important role, many scientists now believe that the answer also lies in the amount of male and female hormones in the mother's body before a child's birth. Research has shown that this balance of hormones leads to three different types of brain: type E, type S and Type B. People who are born with a type S or male brain are generally interested in systems: constructing and organising things and working out how things work. They tend to be good at working out where they are from maps, making things from plans or collecting things.

Others have a type E or female brain which means they are good at understanding other people's emotions and treating people with care because they are sensitive themselves. Others are born with characteristics of both these male and female brains --this is called the type B or balanced brain. Perhaps the most crucial thing that the researchers found out was that the type of brain you have does not have to depend on your sex.

QUESTION 2. ANSWER THE TWO BLOCKS OF QUESTIONS: (2.5 points)

2.1. Block 1. Pronunciation: (0.90 points)

- In which **two** words do the underlined vowels have the same sound as the "o" in "role"? brought, organizing, worked, both, prone, cost, rod, poor
- In which word are the underlined letters pronounced differently from the others? experts, these, female, please
- In which **two** words is the stress on the first syllable as in "interests"? between, research, constructing, results, differences, attack, profile, became
- In which one of the following words is the underlined "- ed" pronounced /t/ as in "cooked"? depended, worried, interested, balanced

2.2. Block 2. Complete the second sentence of each pair so that it has the same meaning as the first one. You must use the word or expression in italics. (1.60 points)

- Has anyone seen Ralph this morning?
Has Ralph...
- Research has shown that the crash was the result of pilot error.
It has....
- They have three sons. All of them are living abroad
..... all of....
- It would be a good idea to study biology if you want to be a doctor.
You...

QUESTION 3. READ TEXT B AND ANSWER THE THREE QUESTIONS BELOW: (2.5 points)

- 3.1. Write a summary of the text in English, including the most important points, using your own words. (approximately 50 words; **0.75 points**).
- 3.2. Indicate whether the following statements are true or false (T/F) according to the text. Copy that part (and ONLY that part) of the text which justifies your answer. **(1 point)**
- 3D Printing technology was first used in medicine.
 - Nowadays, only toys can be built with the help of 3D printers.
 - It takes days to reproduce body parts for surgical purposes.
 - Agriculture will be especially affected by 3D printing.
- 3.3. Find words or phrases in the text that correspond in meaning to the words and definitions given here: **(0.75 points)**
- a. fabrication b. put together c. assigning

TEXT B

3D printing technology made its way to the technological world in the year 1986, but did not gain importance until 1990. It was not that popular outside the world of engineering, architecture and manufacturing. 3D printing is also known as desktop fabrication; it can form any material that can be obtained as a powder. To create an object you need a digital 3D-model. You can scan a set of 3D images, or draw it using Computer-Assisted Design, or CAD, software. You can also download the images from the Internet. The digital 3D-model is usually saved in STL format and then sent to the printer. The process involves "printing" a three-dimensional object layer-by-layer, which is quite similar to what ink-jet printers do. One of the most important applications of 3D printing is in the medical industry. With 3D printing, surgeons can produce mock-ups of parts of their patient's body which need to be operated upon. 3D printing makes it possible to create a part from scratch in just hours. It allows designers and developers to go from flat screen images to perfect three-dimensional artefacts. Nowadays almost everything from aerospace components to toys is being built with the help of 3D printers. 3D printing can provide great savings on assembly costs because it can print already-assembled products. With 3D printing, companies can now experiment with new ideas and numerous design iterations with no extensive time or tooling expense. They can decide if product concepts are worth allocating additional resources. 3D printing could even challenge mass production methods in the future. 3D printing is going to have an impact on many industries, such as automotive, medical, business and industrial equipment, education, architecture, and consumer-products industries.

QUESTION 4. ANSWER THE TWO BLOCKS OF QUESTIONS: (2.5 points)

4.1. Block 1. Pronunciation: (0.90 points)

- In which **two** words is the consonant "b" **NOT** silent? thumb, doubt, subtle, bulb, climb, crumble, plumber, debt,
- In which word are the underlined letters pronounced differently? blood, cool, tool, boot
- In which **two** words is the ending "-ed" pronounced /ɪd/ as in "mended"? wanted, fainted, arrived, dropped, listened, washed, controlled, played
- In which word are the underlined letters pronounced like "ch" in "church"? badge, nature, jam, soldier

4.2. Block 1: Complete the second sentence of each pair so that it has the same meaning as the first one. You must use the word or expression in italics. **(1.60 points)**

- You can also download the images from the Internet.
The images...
- 3D printing made its way to the technological world in 1986, but did not gain importance until 1990.
Although...
- 3D printing is going to impact many industries, such as the automotive and medical industries.
Two of the ...
- 3D printing can save a lot of money in assembly costs.
A lot of money...

QUESTION 5. WRITE A COMPOSITION ANSWERING THESE QUESTIONS: Has the role of women changed over the last decades? If so, how? (Approximately 120 words) (2.5 points)

QUESTION 6. WRITE A COMPOSITION ANSWERING THIS QUESTION: What are the advantages and disadvantages of having the Internet? (Approximately 120 words) (2.5 points)