

Después de leer atentamente los textos y las cuestiones siguientes, el alumno deberá escoger una de las dos opciones propuestas y responder en INGLÉS a las cuestiones de la opción elegida.

CALIFICACIÓN: Las cuestiones 1ª, 2ª y 4ª se valorarán sobre 2 puntos cada una, la pregunta 3ª sobre 1 punto y la pregunta 5ª sobre 3 puntos. **TIEMPO:** 90 minutos.

OPCIÓN B

Fancy a Lab Grown Burger?

Tissue engineering, which helps to improve damaged cells or whole organs, has proved to be extremely useful for medical applications that extend our lives. However, we might question ourselves what's the point of living with artificial organs for a much longer period and without disease if our planet is going to be barren and without food. The answer might be cultured meat, that is to say, meat produced in a laboratory, in a cell culture, rather than from an animal, but identical to the burgers you can find at any supermarket. This new type of meat has the potential to address huge global problems such as world hunger and global warming in the coming years. After all, if you look at the potential benefits of tissue engineering, food production for 9 billion people is going to be a much more relevant matter than merely prolonging their lives.

After producing the first cow-less burger, which cost a massive €250,000 to grow, a researcher at the University of Maastricht has become the public face of cultured meat. That first burger, which was financed by a co-founder of Google, was tasted live in London back in 2013. The price has since dropped to around €10 per burger, and several new companies in the US and in Israel are currently working on their own cultured meat products. In 3-4 years' time these companies might have launched some expensive burgers in small scale production. However, large-scale production with a price equal to regular meat will take much longer.

Lab grown meat is not only beneficial for humans. Animal welfare is an added benefit; however, if one had to prioritize, no doubt the environmental impact of protein production alternatives for beef and pork is even more important. More cultured meat means less pollution through fossil fuel usage, animal methane, effluent waste, and water and land consumption.

QUESTIONS

1.- Are the following statements TRUE or FALSE? Copy the evidence from the text. No marks are given for only TRUE or FALSE.

- a) The University of Maastricht invested a total of a quarter of a million euros from its own budget in the first synthetic burger.
- b) It will take some time before the cultured burgers cost as much as regular ones.
(Puntuación máxima: 2 puntos)

2.- In your own words and based on the ideas in the text, answer the following questions. Do not copy from the text.

- a) Explain how tissue engineering may help biomedical research.
- b) What may be the effects of large-scale cultured meat production on global warming?
(Puntuación máxima: 2 puntos)

3.- Find the words in the text that mean:

- a) entire (paragraph 1)
- b) subsidised (paragraph 2)
- c) fallen (paragraph 2)
- d) nowadays (paragraph 2)
(Puntuación máxima: 1 punto)

4.- Complete the following sentences. Use the appropriate form of the word in brackets when given.

- a) I wish scientists _____ (discover) meat culture decades ago! It _____ have spared the planet much irreversible degradation.
- b) The first cultured meatball _____ (make) in 2016 by an unknown company _____ manager is a young bio-engineer in her twenties.
- c) Some believe that cultured meat is one of _____ (important) discoveries in recent times for _____ (defeat) some world problems.
- d) Nowadays, _____ (be) a vegetarian is becoming a far more popular option _____ it used to be a few decades ago.
(Puntuación máxima: 2 puntos)

5.- Write about 150 to 200 words on the following topic.

Would you like to live in a world with only artificial food? Justify your answer.
(Puntuación máxima: 3 puntos)