



## Evaluación de Bachillerato para el Acceso a la Universidad de Castilla y León

LENGUA EXTRANJERA:  
INGLÉS

EJERCICIO  
Nº páginas: 2

### OPTION A

#### ARE THERE FEWER WOMEN IN STEM?

- 1 A recent report shows that the countries with most female college graduates in Science, Technology, Engineering, and Mathematics (STEM) were also some of the least gender-equal countries. While just 18% of STEM degrees go to women in USA, where girls are taught they can be anything they want to be, in Algeria,
- 5 41% of college graduates in STEM are female, where employment discrimination and abuse against women is usual. In test scores across 67 countries, girls performed as well or better than boys did on STEM and would have been capable of college-level science classes if they had enrolled in them. But when it comes to their *relative* strengths, boys' best subject was science and
- 10 girls excelled in reading. The gap in reading is related to girls' advantages in basic language abilities and a greater interest in reading.
- So, what explains the tendency for nations that have traditionally *less* gender equality to have *more* women in science and technology than their gender-progressive counterparts do? This is because the countries that empower women also empower them to pick whatever career they'd enjoy most. Besides, less gender-equal countries tend to have less social support for people who find themselves unemployed. Thus girls in those countries are more inclined to choose STEM professions, which offer a more certain financial future. Then, it could just be that, feeling financially secure and on equal footing with men, some women will always choose to follow their passions, rather than whatever labour economists recommend. And those passions don't always lie within science.

#### QUESTIONS

- [1] ANSWER THE FOLLOWING QUESTION ACCORDING TO THE TEXT AND USING YOUR OWN WORDS (10 TO 20 WORDS) (2 POINTS).

Why are women less likely to choose STEM professions in countries like the USA?

- [2] ARE THE FOLLOWING STATEMENTS TRUE OR FALSE? INDICATE THE LINE(S) IN THE TEXT AND COPY THE FIRST 2 WORDS AND THE LAST 2 WORDS SUPPORTING YOUR CHOICE (1.5 POINTS AS A WHOLE: 0.5 EACH).

- 2.1. Only 41% of college graduates in STEM in Algeria are men.  
2.2. Girls are better at reading than boys because they are better at language and they are interested in reading.

2.3. When women are more concerned about finding a job, they tend to choose STEM professions.

- [3] CHOOSE *a, b* OR *c*. ONLY ONE CHOICE IS CORRECT ACCORDING TO THE TEXT (0.5 POINTS).

The paradox concerning the choice of careers worldwide is:

- a) The more gender-equal the country is, the fewer women choose STEM professions.  
b) Boys score much better than girls in STEM subjects at school.  
c) 41% of women in the USA choose a scientific career although they are taught they can be anything they want to be.

- [4] VOCABULARY (2 POINTS AS A WHOLE: 0.4 EACH).

- Find one word in the text for each of the following meanings:

- a) records of points  
b) a branch of knowledge as a course of study

- Find synonyms in the text for each of the words below:

- c) common  
d) registered  
e) disparity

- [5] COMPLETE TASKS a AND b ACCORDING TO THE INSTRUCTIONS GIVEN (1 POINT AS A WHOLE: 0.5 EACH).

5.1. Put into the passive: "Women living in countries with higher gender inequality choose STEM professions."

5.2. Write a question for which the underlined words are the answer: "Less gender-equal countries offer less social support"

- [6] WRITE ABOUT THE FOLLOWING TOPIC USING BETWEEN 100-120 WORDS (3 POINTS).  
What degree would you like to take? Why?



**OPTION B**

**WEATHER DEVICES**

1 Weather is a phenomenon of nature that affects all of us. Forecasting the weather helps us fit our plans. Two instruments used in forecasting the weather are the thermometer and the barometer.

The thermometer works on the principle that liquids increase in volume as their temperature rise. The mercury-in-glass thermometer consists of a glass tube, a bulb at the bottom, and a sealed end at the top. The bulb and part of the tube are filled with mercury. When the temperature being measured goes up, the volume of mercury increases more than the capacity of the bulb, forcing the mercury to rise in the tube. The temperature is read from a calibrated scale on the tube at the point the mercury stops rising.

Another instrument using mercury is the barometer, which measures air pressure. A mercury barometer is a long glass tube with its open end in a cup of mercury. The barometer also measures a change in atmospheric condition. As the air pressure changes so does the height of the mercury in the tube. Variations in temperature cause differences in pressure. Warm air weighs less than cold air, therefore exerting less pressure on the mercury and causing it to rise. Correspondingly, cooler temperatures create greater pressure on the mercury, causing it to drop. Therefore, a drop in the readings of both instruments indicates cool or stormy weather.

And so, the thermometer and the barometer are weather instruments. Daily consultation can help you decide whether to expect rain or sunshine.

**QUESTIONS**

[1] **ANSWER THE FOLLOWING QUESTION ACCORDING TO THE TEXT AND USING YOUR OWN WORDS (10 TO 20 WORDS) (2 POINTS).**

Why are the devices compared in the text important for us?

[2] **ARE THE FOLLOWING STATEMENTS TRUE OR FALSE? INDICATE THE LINE(S) IN THE TEXT AND COPY THE FIRST 2 WORDS AND THE LAST TWO WORDS SUPPORTING YOUR CHOICE (1.5 POINTS AS A WHOLE: 0.5 EACH).**

2.1. Two instruments in forecasting the weather are the thermometer and the microscope.

2.2. Barometers use water instead of mercury, because mercury is forbidden.  
2.3. Mercury drops because cooler temperatures create greater pressure on it.

[3] **CHOOSE a, b OR c. ONLY ONE CHOICE IS CORRECT ACCORDING TO THE TEXT (0.5 POINTS).**

When the temperature being measured goes up...

- a) it forces the mercury to rise in the tube.
- b) the volume of mercury decreases.
- c) the air pressure changes according to the height of the mercury in the tube.

[4] **VOCABULARY (2 POINTS AS A WHOLE: 0.4 EACH).**

- **Find one word in the text for each of the following meanings:**

- a) a fact or situation that is observed to exist or happen
- b) with a lot of rain and strong winds

- **Find synonyms in the text for each of the words below:**

- c) predicting
- d) idea
- e) graduated

[5] **COMPLETE TASKS a AND b ACCORDING TO THE INSTRUCTIONS GIVEN (1 POINT AS A WHOLE: 0.5 EACH).**

5.1. **Complete:** If we didn't have weather devices,

5.2. **Write a question for which the underlined words are the answer:** "Daily consultation can help you decide whether to expect rain or sunshine"

[6] **WRITE ABOUT THE FOLLOWING TOPIC USING BETWEEN 100-120 WORDS (3 POINTS).**

Imagine you are going on a trip. What would you take according to the weather forecast?