



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

LENGUA EXTRANJERA:
INGLÉS

EJERCICIO
Nº páginas: 2

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.

5 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
10 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.
15 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?