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By: PRACTA Academy

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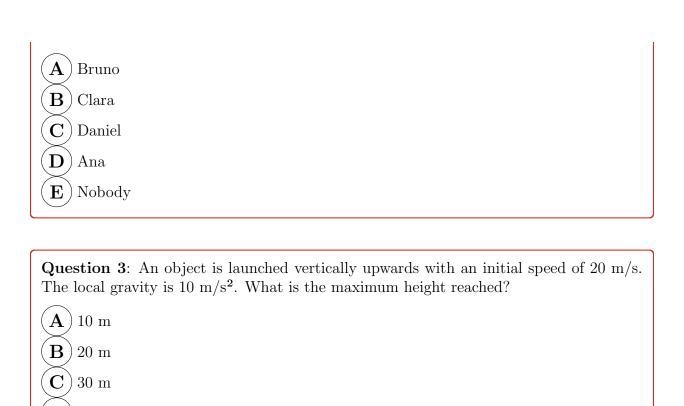
## PRACTA Beta Exam

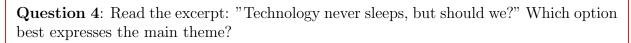
General Knowledge and Reasoning

**Question 1**: A function  $f(x) = 2x^2 - 8x + k$  has its minimum at x = 2. Which value of k makes f(x) = 0 have two distinct real roots?

- $(\mathbf{A})$  k; 0
- (**B**) k ¿ 0
- $(\mathbf{C}) \mathbf{k} = 0$
- **(D**) k ; 8
- **E**) k ; 8

**Question 2**: In a group, there are four friends: Ana, Bruno, Clara, and Daniel. It is known that: - If Ana goes to the movies, then Bruno goes too. - If Bruno doesn't go, then Clara goes. - Daniel goes only if Clara goes. If Ana does not go to the movies, who certainly goes?





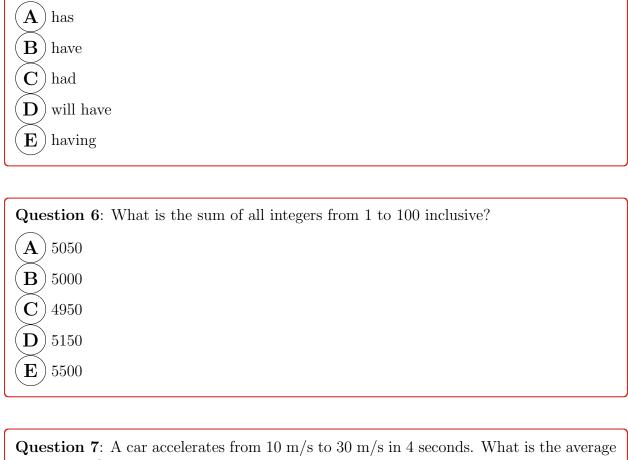
- $(\mathbf{A})$  The need to switch off electronic devices.
- $(\mathbf{B})$  The impact of technology on human sleep.
- $(\mathbf{C})$  The constant evolution of science.

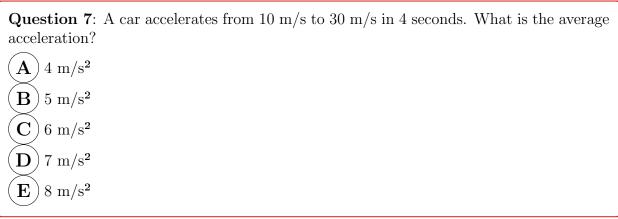
**D**) 40 m

50 m

- **D** The link between electricity and productivity.
- $(\mathbf{E})$  The rise of artificial intelligence.

**Question 5**: Choose the option that best completes the sentence: "If I  $\_\_\_$  more time, I would travel around the world."





**Question 8**: All PRACTA students love challenges. Matheus is a PRACTA student. Therefore:

Matheus might like challenges.
C Matheus likes challenges.
(D) Matheus hates challenges.
E Nothing can be concluded.
Question 9: Which of these elements is liquid at room temperature?
$oxed{\mathbf{A}}$ Iron
(B) Mercury
C Aluminum
$oxed{\mathbf{D}}$ Zinc
E Copper
Question 10: What is the main goal of the annual COP conferences organized by the UN?
(A) Discuss global economy
B Debate human rights
C Promote peace agreements
D Negotiate actions against climate change
E Regulate international trade

(A) Matheus doesn't like challenges.

## **PRACTA**

## **Answer Sheet**

- 1. (A)(B)(C)(D)(E)
- 2. (A)(B)(C)(D)(E)
- 3. (A)(B)(C)(D)(E)
- 4.  $(\mathbf{A})(\mathbf{B})(\mathbf{C})(\mathbf{D})(\mathbf{E})$
- 5.  $(\mathbf{A})(\mathbf{B})(\mathbf{C})(\mathbf{D})(\mathbf{E})$
- 6.  $(\mathbf{A})(\mathbf{B})(\mathbf{C})(\mathbf{D})(\mathbf{E})$
- 7.  $(\mathbf{A})(\mathbf{B})(\mathbf{C})(\mathbf{D})(\mathbf{E})$
- 8.  $(\mathbf{A})(\mathbf{B})(\mathbf{C})(\mathbf{D})(\mathbf{E})$
- 9.  $(\mathbf{A})(\mathbf{B})(\mathbf{C})(\mathbf{D})(\mathbf{E})$
- 10.  $(\mathbf{A})(\mathbf{B})(\mathbf{C})(\mathbf{D})(\mathbf{E})$