

**MARINHA DO BRASIL**  
**SERVIÇO DE SELEÇÃO DO PESSOAL DA MARINHA**

***CONCURSO PÚBLICO DE ADMISSÃO AO COLÉGIO NAVAL  
CPACN/2021***

**NÃO ESTÁ AUTORIZADA A UTILIZAÇÃO DE  
MATERIAL EXTRA**

**1º Dia – Prova de Matemática e Inglês**

### QUESTÃO 1

Duas embarcações,  $E_1$  e  $E_2$ , solicitaram apoio para reabastecimento dos seus tanques, idênticos, de água. Para isso, foram utilizadas duas mangueiras,  $M_1$  e  $M_2$ . Sabendo que as duas iniciaram a distribuição de água juntas e que  $M_1$  enche o tanque de  $E_1$  em 10 horas e  $M_2$  completa o nível do tanque de  $E_2$  em 8 horas, aproximadamente, ao final de quanto tempo o volume que falta para encher o tanque de  $E_2$  será  $\frac{1}{4}$  do volume que falta para encher o volume de  $E_1$ ?

- (A) 7h e 30min
- (B) 7h
- (C) 6h e 30min
- (D) 6h
- (E) 5h

### QUESTÃO 2

O MDC ( $10^{35} - 1$ ;  $10^{40} - 1$ ) vale:

- (A) 99999
- (B) 9999
- (C) 999
- (D) 99
- (E) 9

### QUESTÃO 3

Um estudante, no retorno às aulas, comprou quatro tipos de materiais escolares em duas lojas diferentes conforme a tabela abaixo.

LOJA	PRODUTO	PREÇO UNITÁRIO (R\$)	TOTAL (R\$)
PAPEL e Cia	Lápis	3,00	50,00
	Caderno	5,00	
PAPELARIA MIX	Marca texto	4,00	44,00
	Borracha	2,00	

Ao chegar a casa, o estudante percebeu que havia trazido o mesmo número de lápis e marca texto. Assinale a opção que corresponde à quantidade de borrachas compradas, sabendo que o estudante comprou o maior número possível de cadernos.

- (A) 8
- (B) 9
- (C) 10
- (D) 11
- (E) 12

### QUESTÃO 4

Se  $X_1$  e  $X_2$  são os raios de duas circunferências,  $Y_1$  e  $Y_2$ , respectivamente, com  $X_1 > X_2$ , e sendo  $Z$  a distância entre  $Y_1$  e  $Y_2$ , o número de pontos de interseção entre  $Y_1$  e  $Y_2$ , quando  $Y_1 - Y_2 < Z < Y_1 + Y_2$ , será igual a:

- (A) 0
- (B) 1
- (C) 2
- (D) 3
- (E) 4

### QUESTÃO 5

Dado um triângulo equilátero ABC, de lado  $x$ , e sabendo que  $M$  é o ponto médio de  $\overline{BC}$ , é INCORRETO afirmar que:

- (A)  $\overline{AM} = \frac{x\sqrt{3}}{2}$ .
- (B) o triângulo ABC é, também, um triângulo isósceles.
- (C) a altura (h) do triângulo ABC é mediana e bissetriz.
- (D) a área do triângulo ABC corresponde a expressão

$$\frac{\sqrt{9x^8}}{\sqrt[3]{64}}$$

- (E) a altura (h) do triângulo ABC é igual a  $\frac{x\sqrt{3}}{4}$ .

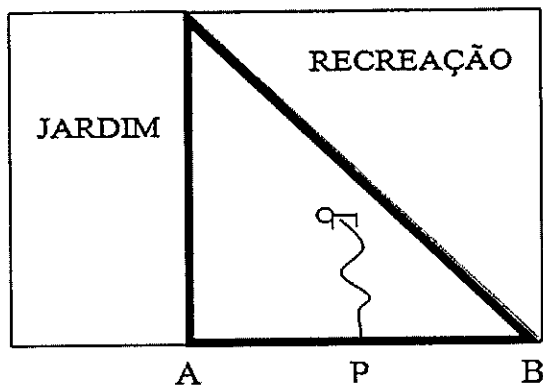
### QUESTÃO 6

Na natureza há bactérias que se multiplicam tão rapidamente que dobram de volume a cada minuto. Partindo-se de uma bactéria, em 50min um ambiente estará cheio de bactérias. Em quanto tempo, aproximadamente, esse mesmo processo irá acontecer se o estudo for feito com duas bactérias idênticas.

- (A) 0,4 horas
- (B) 0,5 horas
- (C) 0,6 horas
- (D) 0,7 horas
- (E) 0,8 horas

### QUESTÃO 7

Um animal de estimação foi preso a uma corda de 3m em um poste P de uma praça que contém região reservada para animais de estimação delimitada entre o jardim e espaço de recreação, conforme a figura abaixo. Se a corda possui o mesmo tamanho de  $\overline{AP}$  e  $\overline{PB} = \overline{AP}$ , o valor da área em que o animal consegue se deslocar é:



- (A)  $\frac{9}{2} \left( \frac{\pi}{2} + 1 \right)$
- (B)  $9(\pi + 2)$
- (C)  $\frac{9\pi}{4}$
- (D)  $\frac{9}{2}$
- (E)  $\frac{9}{4}(\pi + 1)$

### QUESTÃO 8

Analise as igualdades abaixo e assinale a opção correta.

$$\frac{43}{19} = a + \frac{1}{b + \frac{1}{c + \frac{1}{d}}} \text{ e } \frac{97}{12} = a' + \frac{1}{b'}$$

- (A)  $(a + b + c + d) = 4(a' + b')$
- (B)  $(a \cdot b \cdot c \cdot d) = (a' \cdot b')$
- (C)  $4(a \cdot b \cdot c \cdot d) = (a' \cdot b')$
- (D)  $(a + b + c + d) = 3(a' + b')$
- (E)  $3(a + b + c + d) = 3(a' \cdot b')$

### QUESTÃO 9

Em 2021, o período de adaptação dos alunos do Colégio Naval teve início no dia 15 de março, um domingo. Qual será o dia do início da próxima adaptação, se esta começar no dia 18 de junho de 2022?

- (A) Domingo.
- (B) Sexta-feira.
- (C) Quarta-feira.
- (D) Segunda-feira.
- (E) Sábado.

### QUESTÃO 10

Para qualquer x real e maior que zero, associe os polinômios da 1ª coluna aos seus correspondentes, na forma fatorada, da 2ª coluna e assinale a opção que corresponde à sequência correta.

- |   |                      |
|---|----------------------|
| (I) $(x + 1) \cdot (x - 1) \cdot (x^2 - x + 1) \cdot (x^2 + x + 1)$ | ( ) $x^3 + 8$        |
| (II) $(x + 2) \cdot (x^2 - 2x + 4)$                                 | ( ) $x^6 + 2x^3 + 1$ |
| (III) $(x - 4) \cdot (x^2 + 4x + 16)$                               | ( ) $x^6 - 1$        |
| (IV) $(x + 1)^2 \cdot (x^2 - x + 1)^2$                              | ( ) $x^3 - 64$       |
| (V) $(x + 5) \cdot (x^2 - 5x + 25)$                                 | ( ) $x^5 - x^2$      |
| (VI) $(x + 8) \cdot (x + 3)$  |                      |

- (A) (II) (I) (IV) (III) (VI)
- (B) (III) (VI) (I) (V) (-)
- (C) (V) (I) (VI) (II) (-)
- (D) (II) (IV) (I) (III) (-)
- (E) (VI) (III) (-) (V) (I)

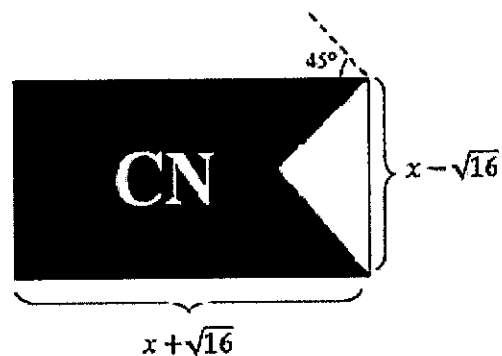
### QUESTÃO 11

A 157ª casa decimal do número equivalente a  $\frac{1}{13}$  é:

- (A) 0
- (B) 1
- (C) 2
- (D) 7
- (E) 9

### QUESTÃO 12

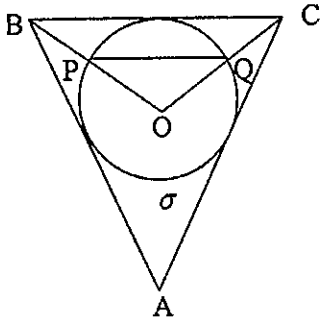
O barrete de adaptador é objeto, com forma retangular, de desejo de muitos alunos do 3º ano escolar do Colégio Naval. Observando a imagem e as informações contidas nela, assinale a opção que contém o perímetro da parte branca da figura, sendo conhecida a área retangular: 48  $mm^2$ .



- (A)  $8(\sqrt{2} + 2) mm$
- (B)  $4(\sqrt{3} + 2) mm$
- (C)  $(\sqrt{2} + 2) mm$
- (D)  $4(\sqrt{3} + 1) mm$
- (E)  $4(\sqrt{2} + 1) mm$

### QUESTÃO 13

Na figura abaixo,  $O$  é o ponto de encontro das bissetrizes do  $\triangle ABC$  e centro da circunferência  $\sigma$ . Sabendo que o  $\widehat{B\hat{O}C}$  é o dobro de  $\widehat{B\hat{A}C}$  e que o  $\overline{PQ} = 10\sqrt{3}$  cm, qual é o comprimento  $\overline{PQ}$ ?



- (A)  $\frac{5\pi}{6}$   
 (B)  $\frac{2\pi}{3}$   
 (C)  $\frac{\pi}{3}$   
 (D)  $\frac{20\pi}{3}$   
 (E)  $\frac{15\pi}{6}$

### QUESTÃO 14

Dada a função  $f(x) = \begin{cases} 0, & \text{se } x \leq 0 \\ x^2, & \text{se } 0 < x \leq 1 \\ 1, & \text{se } x > 1 \end{cases}$ , algumas afirmações são feitas a respeito de  $f(x)$ .

- I- O gráfico coincide com a reta  $y = 0$ , quando  $x \leq 0$   
 II- A imagem de  $f(x)$  é  $\text{Im} \{y \in \mathbb{R} | 0 \leq y < 1\}$ .  
 III-  $f(x)$  é uma função decrescente.

Estão corretas:

- (A) apenas I e II.  
 (B) apenas II e III.  
 (C) I, II e III.  
 (D) apenas I.  
 (E) apenas II.

### QUESTÃO 15

Para a seleção de Alunos monitores do Colégio Naval, foram abertas inscrições para as disciplinas de Matemática, Português e Física. No entanto, não foi permitida a candidatura para Português e Física, simultaneamente, por incompatibilidade de horário. O total de inscritos para Português foi de 19 alunos, já para Física, foram 42. Dos 84 inscritos para Matemática, 49 são candidatos apenas para Matemática. Foi constatado que o número de inscritos apenas para Português é de 10 alunos a menos que o número de inscritos apenas para Física. Assinale a opção que corresponde ao número de alunos que se inscreveram para Matemática e Física ao mesmo tempo.

- (A) 21  
 (B) 22  
 (C) 23  
 (D) 24  
 (E) 25

### QUESTÃO 16

Marque a opção que apresenta a solução da inequação abaixo.

$$\frac{x^2(x+1) - ((x+2) \cdot (x-2) \cdot x)}{x^3 - x^2(x-1) + 2x - 3(x-3) - 11} < 0$$

- (A)  $S = \{x \in \mathbb{R} | -1 < x < 0\}$   
 (B)  $S = \{x \in \mathbb{R} | -4 < x < -1 \cup 0 < x < 2\}$   
 (C)  $S = \{x \in \mathbb{R} | 2 < x < 4\}$   
 (D)  $S = \{x \in \mathbb{R} | -8 < x < -4\}$   
 (E)  $S = \{x \in \mathbb{R} | -1 < x < 0 \cup 0 < x < 2\}$

### QUESTÃO 17

Sabendo que os números  $x$ ,  $y$  e  $z \in \mathbb{Z}_+$  e que  $x + y + z$  é igual ao maior número inteiro de 4 algarismos distintos, assinale a opção que expressa o resultado da nova soma, caso seja acrescentado aos números  $x$ ,  $y$  e  $z$  o menor número inteiro de 3 algarismos.

- (A) 10.176  
 (B) 10.299  
 (C) 10.182  
 (D) 10.305  
 (E) 10.083

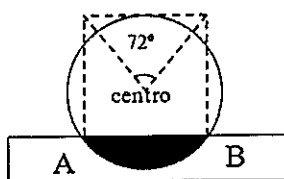
### QUESTÃO 18

A figura 1 retrata um dos símbolos mais tradicionais da Marinha do Brasil. Ele é utilizado nos uniformes dos oficiais da armada e faz referência à volta que o Almirante Nelson, oficial inglês, levava em um pequeno cabo amarrado à manga de seu dólmã.

Uma costureira, na confecção de uniformes, o reproduziu como uma combinação de duas figuras geométricas: um círculo e um retângulo, figura 2. Assinale a opção que contenha o valor da área hachurada, sabendo que o diâmetro do círculo, figura 2, é igual a 20 mm e que  $\overline{AB}$  vale 12 mm.



(figura 1)



(figura 2)

- (A)  $2 \cdot (2\pi - 5)$
- (B)  $3 \cdot (5\pi - 10)$
- (C)  $4 \cdot (5\pi - 12)$
- (D)  $5 \cdot (2\pi - 3)$
- (E)  $6 \cdot (4\pi - 5)$

### QUESTÃO 19

Em um triângulo equilátero ( $\Delta$ ) com vértices A, B e C, marca-se os pontos médios D, E e F dos segmentos  $\overline{AB}$ ,  $\overline{AC}$  e  $\overline{BC}$ , respectivamente. Dos segmentos  $\overline{DE}$ ,  $\overline{DF}$  e  $\overline{EF}$ , marca-se, novamente, os pontos médios H, I e G. Sabendo que a área da figura plana formada pelos segmentos  $\overline{HI}$ ,  $\overline{HG}$  e  $\overline{IG}$  é  $25\sqrt{3} \text{ cm}^2$ , assinale a opção que apresenta a quantidade de item ou itens INCORRETO(S).

- I- A razão entre a altura (x) da figura plana formada pelos segmentos  $\overline{HI}$ ,  $\overline{HG}$  e  $\overline{IG}$  e a altura (X) do triângulo formado pelos segmentos  $\overline{AB}$ ,  $\overline{AC}$  e  $\overline{BC}$  é igual a  $\frac{1}{4}$ .
- II- A soma dos perímetros ( $\Delta$ ) ABC, ( $\Delta$ ) DEF e ( $\Delta$ ) HIG é um múltiplo de 7.
- III- O lado do ( $\Delta$ ) HIG vale 25cm.
- IV- A área do ( $\Delta$ ) BDF é quatro vezes maior que a área do ( $\Delta$ ) ADE.

- (A) Zero.
- (B) Um.
- (C) Dois.
- (D) Três.
- (E) Quatro.

### QUESTÃO 20

Sejam m, n e x números reais, tais que  $m = 2^2$ ,  $m^n = 32$  e  $m - n = x$ . O valor da expressão  $m^{-x} \cdot x^{-4} \cdot 9n$  é:

- (A)  $\left(\frac{5}{6}\right)^{-1}$
- (B)  $0, \bar{6}$
- (C)  $0, \bar{5}$
- (D)  $(3)^{-1}$
- (E)  $\left(\frac{1}{2}\right)^{-1}$

Read text I to answer questions 21 to 27.

### TEXT I

Like students throughout California (USA), students in the West Contra Costa Unified school district, in Richmond, have coped with distance learning instituted this year in response to the coronavirus pandemic. Today, we are bringing you these students' reflections on their current experiences with distance learning and being out of school - what worked and what didn't. Students' remarks have been edited in some instances for clarity.

**Nayeli Mercado, 15, sophomore, Richmond High**  
Before distance learning, my mental health was never great, but it was controllable. However, once quarantine started, I have felt way more mentally exhausted because I can't go out. Also, I've been really emotional. I get really sad over little things or angry at things I shouldn't get angry about. I used to complain about school a lot but I kind of miss it now. I miss my friends, teachers, attending class. I miss school in general.

**Alizei De Leon, 15, sophomore, Middle College High**  
I have about the same amount of homework, or maybe a little less in this second year since some teachers are trying to make this easier. Additionally, I don't have to study as much for tests anymore since some teachers have cancelled tests for the rest of the year... I spend about three to four hours on homework per day unless I've already finished all my work that week. I'm getting through my classes, but I know that I will forget most of this information throughout the summer.

**Ricardo Castillo, 17, senior, Richmond High**  
At first, when this distance learning started, I thought the work was going to be easier. But then, as time passed, everything just fell apart. I'm behind in all of my classes and it's nearly impossible to catch up. I can't do the work on my own. I want to learn with my classmates. Distance learning changed a lot of things for me. I wasn't able to spend time with my friends and my last year of high school hasn't been what I expected at all.

**Yashika Joshi, 17, senior, Aspire College Prep Academy**  
Distance learning has been difficult. It's been hard to manage, teaching yourself through assignments... I try to do my work when everybody is asleep at night. If I was at school, I would've learned much more due to a teacher paying more attention. Teachers are assigning work on a daily basis, with 45 minutes to hour-long assignments for each class, all due at the end of the week. The workload has increased a lot. Some teachers have reached out (checked in) but not often.

**Dana Reyes, 18, senior, Middle College High**  
My classes are all being taught virtually, through email, or through Google Classroom. I have pushed my self-determination to the max and I'm experiencing something very strange. I am still receiving the content but now I have to work twice as hard to understand the material. Sometimes, it is discouraging, and I get unmotivated, but I still try my best to finish early even though teachers and staff have been very flexible and understanding with due dates.

**Mekayla Saechao, 16, junior, Richmond High**  
Distance learning for me so far has been difficult but manageable. Most of my classes consist of completing work that is posted on Google Classroom with a Zoom meeting every other week. I don't believe I'm learning as much as I would have in school because I'm not getting a lesson from my teachers every day. My teachers have helped a lot by answering questions about assignments quickly... To tell you the truth, it is a lot to manage since I'm not physically at school, working with my classmates and teachers. But being at home in my comfort zone has helped me become more organized with my works.

**Monishlla Maharaj, 18, senior, Richmond High**  
Although I have assignments from almost all of my classes every day, almost back-to-back, I always feel like I can do the work whenever I want to... It's like fighting with my brain daily to do the work or not to do the work. As much as I wouldn't want to do online learning, I know it benefits everyone by preventing them from getting sick from the virus.

**Sarahi Yupit, 16, sophomore, Richmond High**  
It is hard to concentrate at home during distance learning because I don't feel motivated to do the work since there is nobody my age whereas at school, I feel motivated. It seems like it's easier to do the tasks and stay on task. There are teachers who teach the actual material. They also motivate you to do your best.

Adapted from <https://edsources.org/>, posted on June 3

### QUESTÃO 21

Ricardo Castillo's statement about his experience studying out of school implies that he is feeling

- (A) motivated.
- (B) comfortable.
- (C) disappointed.
- (D) understanding.
- (E) self-determined.

### QUESTÃO 22

Read the following sentence.

"I spend about three to four hours on homework per day."

Mark the option that completes the sentence correctly.

- (A) How often do you do your homework?
- (B) How do you do your homework?
- (C) How many times do you do your homework?
- (D) How many hours do students spend on homework?
- (E) How long do you spend doing your homework?

### QUESTÃO 23

Say if the following statements are T (true) or F (false). Then, mark the correct option.

- ( ) Yashika Joshi's teachers give students tasks every day through distance learning.
- ( ) Monishlla Maharaj thinks online learning during the pandemic is beneficial to people.
- ( ) Alizei De Leon has had more homework during the pandemic than she had in the previous year.
- ( ) Dana Reyes' classes are being taught virtually, only through Google Classroom.
- ( ) Mekayla Saechao believes she has learned at home as much as she would have in school.

- (A) (T)(T)(F)(F)(F)
- (B) (T)(F)(T)(F)(T)
- (C) (T)(T)(F)(F)(T)
- (D) (F)(T)(T)(T)(F)
- (E) (F)(F)(T)(F)(T)

### QUESTÃO 24

Read the following sentence.

"However, once quarantine started, I have felt way more mentally exhausted because I can't go out."

What's the idea expressed by can't in the sentence?

- (A) Ability.
- (B) Prohibition.
- (C) Don't need to.
- (D) Obligation.
- (E) Possibility.

### QUESTÃO 25

The best title for the text is

- (A) British students reflect on their experiences with distance learning.
- (B) Distance learning in the pandemic: students prefer studying at home.
- (C) Distance learning success in West Contra Costa Unified schools.
- (D) Student perspectives: the pros and cons of distance learning in 2020.
- (E) How to motivate students to study harder using distance learning.

### QUESTÃO 26

One of the students pointed out an advantage of studying from home during the pandemic. Who is this student and what is the advantage mentioned?

- (A) Nayeli Mercado: her mental health has been more controllable.
- (B) Dana Reyes: she has been more motivated studying virtually.
- (C) Sarahi Yupit: she can concentrate more because she is alone.
- (D) Yashika Joshi: she has learned much more with the assignments.
- (E) Mekayla Saechao: she became more organized with her works.

### QUESTÃO 27

All students below are in the last year of their courses, EXCEPT for

- (A) Ricardo Castillo.
- (B) Dana Reyes.
- (C) Alizei De Leon.
- (D) Monishlla Maharaj.
- (E) Yashika Joshi.

Read text II to answer questions 28 and 29.

Text II

10 Shorts Not to Miss at 2020's Annecy

"Carne" (Camila Kater, Abano Producciones, Doctela, Brazil, Spain)

Camila Kater's debut short is \_\_\_\_\_ fresh, unprejudiced reflection on femininity through successive stages of life. A resourceful documentary, "Carne" mixes diverse techniques such as paint, watercolor, stop motion, 35mm film and virtual imagery decomposition to obtain a harmonious, vindicating ensemble narrated by five women from childhood to old age, from around the world. Produced by Spain's Abano and Brazil's Doctela, it premiered last year at Locarno, earning a special mention. Multiple further awards followed.

<https://www.google.com/amp/s/variety.com/2020/film/festivals/10-shorts-not-to-miss-2020-annecy-1234641312/amp/>

### QUESTÃO 28

According to the text, it is correct to say that "Carne"

- (A) has won just one prize.
- (B) is considered a must-see documentary.
- (C) was written by five women.
- (D) is short, slow and colorful.
- (E) is a short about human stages of life.

## QUESTÃO 29

Read the following sentence.

"Camila Kater's debut short is \_\_\_\_\_ fresh, unprejudiced reflection on femininity through successive stages of life."

Mark the option that completes the sentence correctly.

- (A) a
- (B) an
- (C) the
- (D) — ( no article )
- (E) one

Read text III to answer questions 30 to 32.

Text III

### Causes and Effects of Climate Change

Glaciers are melting, sea levels are rising, cloud forests are dying, and wildlife is scrambling to keep pace. It has become clear that humans have caused most of the past century's warming by releasing heat-trapping gases as we power our modern lives. Called greenhouse gases, their levels are higher now than at any time in the last 800,000 years.

We often call the result global warming, but it is causing a set of changes to the Earth's climate, or long-term weather patterns, that varies from place to place. While many people think of global warming and climate change as synonyms, scientists use "climate change" when describing the complex shifts now affecting our planet's weather and climate systems — in part because some areas actually get cooler in the short term.

Climate change encompasses not only rising average temperatures but also extreme weather events, shifting wildlife populations and habitats, rising seas, and a range of other impacts. All of those changes are emerging as humans continue to add heat-trapping greenhouse gases to the atmosphere, changing the rhythms of climate that all living things have come to rely on.

What will we do — what *can* we do — to slow this human-caused warming? How will we cope with the changes we \_\_\_\_\_ into motion? While we struggle to figure it all out, the fate of the Earth as we know it — coasts, forests, farms, and snow-capped mountains — hangs in the balance.

By Christina Nunez

Adapted from <https://www.nationalgeographic.com/environment/article/global-warming-overview>

## QUESTÃO 30

Read the statements. Mark (T) for true and (F) false.

- ( ) Glaciers, sea levels, forests and wild life are suffering from global warming.
- ( ) Global warming and climate change are synonyms.
- ( ) Greenhouse gases interferes in weather events.
- ( ) Humans still need to find out how to solve global warming problems.

Mark the correct option.

- (A) (T) (T) (F) (T)
- (B) (F) (T) (T) (F)
- (C) (T) (F) (T) (T)
- (D) (F) (T) (F) (F)
- (E) (T) (F) (F) (T)

## QUESTÃO 31

Read the following sentence.

"How will we cope with the changes we \_\_\_\_\_ into motion?"

Which option completes the sentence correctly?

- (A) have already set
- (B) have already sat
- (C) have sit
- (D) even have sat
- (E) have set yet

## QUESTÃO 32

What's the meaning of the expression hangs in the balance in "... coasts, forests, farms, and snow-capped mountains — hangs in the balance." ? It

- (A) stays the same.
- (B) will last forever.
- (C) can't change any time.
- (D) is uncertain.
- (E) is difficult to believe.



Read text IV to answer questions 33 to 36.

#### TEXT IV

#### Generation Z News - Latest Characteristics, Research, and Facts

Generation Z (aka Gen Z, iGen, or centennials), refers to the generation that was born between 1996-2010, following millennials. This generation has been raised on the internet and social media, with some the oldest finishing college by 2020 and entering the workforce.

Generation Z is the youngest, most ethnically-diverse, and largest generation in American history, comprising 27% of the US population. Pew Research recently defined Gen Z as anyone born after 1997. Gen Z <sup>1</sup> \_\_\_\_\_ up with technology, the internet, and social media, which sometimes causes them to be stereotyped as tech-addicted, anti-social, or "social justice warriors."

The average Gen Z got their first smart phone just before their twelfth birthday. They communicate primarily through social media and texts, and spend as much time on their phones as older generations do watching television.

The majority of Gen Zs prefer streaming services to traditional cable, as well as getting snackable content they can get on their phones and computers.

Gen Z is the most ethnically diverse and largest generation in American history, and eclipses all other generations before it in embracing diversity and inclusion.

Adapted from <https://www.businessinsider.com/generation-z>

#### QUESTÃO 33

All the sentences have comparative or superlative adjectives EXCEPT for

- (A) "this generation has been raised on the internet and social media, with some the oldest finishing college by 2020 and entering the workforce."
- (B) "generation Z, is the youngest, most ethnically-diverse, and largest generation in American history, comprising 27% of the US population."
- (C) "they communicate primarily through social media and texts, and spend as much time on their phones as older generations do watching television."
- (D) "the majority of Gen Zs prefer streaming services to traditional cable, as well as getting snackable content they can get on their phones and computers."
- (E) "gen Z is the most ethnically diverse and largest generation in American history, and eclipses all other generations before it in embracing diversity and inclusion."

#### QUESTÃO 34

Read the sentence and mark the correct option.

"The majority of Gen Zs prefer streaming services to traditional cable, as well as getting snackable content they can get on their phones and computers."

According to the context, you can change the word "snackable" without modifying its meaning for

- (A) secret.
- (B) slow.
- (C) difficult.
- (D) useless.
- (E) straightforward.

#### QUESTÃO 35

Complete gap 1 in the text with the right verb form and mark the correct option.

- (A) grew
- (B) grows
- (C) grow
- (D) grown
- (E) has grew

#### QUESTÃO 36

In relation to generation Z, it is correct to say that they

- (A) prefer traditional cable services.
- (B) come after millennials.
- (C) all have finished college by 2020.
- (D) are reserved and tech-addicted.
- (E) were born only in 2020.

Read text V to answer question 37 to 39.

#### TEXT V

There are no excuses for racism.

Racism takes many forms and can happen <sup>1</sup> \_\_\_\_\_ many places. It includes prejudice, discrimination or hatred directed at someone because of their colour, ethnicity or national origin.

People often associate racism with acts of abuse or harassment. However, it doesn't need to involve violent or intimidating behaviour. Take racial name-calling and jokes. Or consider situations when people may be excluded from groups or activities because of where they come <sup>2</sup> \_\_\_\_\_.

Racism can be revealed through people's actions as well as their attitudes. It can also be reflected in systems and institutions. But sometimes it may not be revealed at all. Not all racism is obvious. For example, someone may look <sup>3</sup> \_\_\_\_\_ a list of job applicants and decide not to interview people with certain surnames.

Racism is more than just words, beliefs and actions. It includes all the barriers that prevent people from enjoying dignity and equality because of their race.

<https://humanrights.gov.au/our-work/race-discrimination/what-racism>

### QUESTÃO 37

Read the following sentence.

"People often associate racism with acts of abuse or harassment."

The underlined word "often" can be replaced by

- (A) seldom.
- (B) usually.
- (C) rarely.
- (D) always.
- (E) never.

### QUESTÃO 38

Complete the gaps 1, 2, and 3 in the text, respectively, with the correct preposition and then, mark the correct option.

- (A) on /for/ at
- (B) into / of/ through
- (C) with /from/ to
- (D) onto/ at/ for
- (E) in / from / through

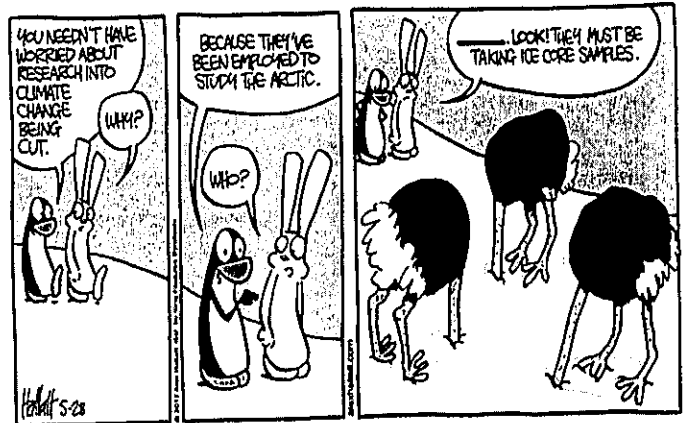
### QUESTÃO 39

According to the text, racism

- (A) is all about certain surnames.
- (B) is not a violent way to address people.
- (C) is clear and easy to identify.
- (D) goes beyond words, beliefs and actions.
- (E) is exclusively revealed through people's words.

### QUESTÃO 40

Read the comic strip.



<https://www.treehugger.com/cartoonist-draws-attention-climate-change-humor-4856711>

Complete the blank with the appropriate pronoun.

- (A) Their
- (B) They
- (C) Them
- (D) It
- (E) Its
















### INSTRUÇÕES GERAIS AO CANDIDATO

- 1 - Verifique se a prova recebida e a folha de respostas são da mesma cor (consta no rodapé de cada folha a cor correspondente) e se não faltam questões ou páginas. Escreva e assine corretamente o seu nome, coloque o seu número de inscrição e o dígito verificador (DV) apenas nos locais indicados;
- 2 - O tempo para a realização da prova será de **05 (cinco) horas**, incluindo o tempo necessário à marcação das respostas na folha de respostas, e não será prorrogado;
- 3 - Só inicie a prova após ser autorizado pelo Fiscal, interrompendo sua execução quando determinado;
- 4 - Iniciada a prova, não haverá mais esclarecimentos. O candidato somente poderá deixar seu lugar, devidamente autorizado pelo Supervisor/Fiscal, para se retirar definitivamente do recinto de prova ou, nos casos abaixo especificados, devidamente acompanhado por militar designado para esse fim:
  - atendimento médico por pessoal designado pela MB;
  - fazer uso de banheiro; e
  - casos de força maior, comprovados pela supervisão do certame, sem que aconteça saída da área circunscrita para a realização da prova.
 Em nenhum dos casos haverá prorrogação do tempo destinado à realização da prova, em caso de retirada definitiva do recinto de prova, esta será corrigida até onde foi solucionada;
- 5 - Use caneta esferográfica preta ou azul para preencher a folha de respostas;
- 6 - Confira nas folhas de questões as respostas que você assinalou como corretas antes de marcá-las na folha de respostas. Cuidado para não marcar duas opções para uma mesma questão na folha de respostas (a questão será perdida);
- 7 - Para rascunho, use os espaços disponíveis nas folhas de questões, mas só serão corrigidas as respostas marcadas na folha de respostas;
- 8 - O tempo mínimo de permanência dos candidatos no recinto de aplicação de provas é de **150 minutos**.
- 9 - Será eliminado sumariamente do processo seletivo/concurso e suas provas não serão levadas em consideração, o candidato que:
  - a) der ou receber auxílio para a execução de qualquer prova;
  - b) utilizar-se de qualquer material não autorizado;
  - c) desrespeitar qualquer prescrição relativa à execução das provas;
  - d) escrever o nome ou introduzir marcas identificadoras noutro lugar que não o determinado para esse fim;
  - e) cometer ato grave de indisciplina; e
  - f) comparecer ao local de realização da prova após o horário previsto para o fechamento dos portões.
- 10 - Instruções para o preenchimento da folha de respostas:
  - a) use caneta esferográfica azul ou preta;
  - b) escreva seu nome em letra de forma no local indicado;
  - c) assine seu nome no local indicado;
  - d) no campo inscrição DV, escreva o seu número de inscrição nos retângulos, da esquerda para a direita, um dígito em cada retângulo. Escreva o dígito correspondente ao DV no último retângulo. Após, cubra todo o círculo correspondente a cada número. Não amasse, dobre ou rasgue a folha de respostas sob pena de ser rejeitada pelo equipamento de leitura ótica; e
  - e) só será permitida a troca de folha de respostas até o início da prova, por motivo de erro no preenchimento nos campos nome, assinatura e número de inscrição, sendo de inteira responsabilidade do candidato qualquer erro ou rasura na referida folha de respostas, após o início da prova.
- 11 - Procure preencher a folha com atenção de acordo com o exemplo abaixo:



**Diretoria de Ensino da Marinha**

Nome: ROBERTO SILVA

Assinatura: Roberto Silva

**Instruções de Preenchimento:**

- Não rasure esta folha.
- Não rabisque nas áreas de respostas.
- Faça marcas sólidas nos círculos.
- Não use canetas que borrem o papel.

**ERRADO:** **CORRETO:**

**PREENCHIMENTO DO CANDIDATO**

INSCRIÇÃO						DV	P	G
5	7	0	2	0	7	0	2	4

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
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- 12 - Não será permitido levar a prova após sua realização. O candidato está autorizado a transcrever suas respostas, dentro do horário destinado à solução da prova, utilizando o modelo impresso no fim destas instruções para posterior conferência com o gabarito que será divulgado. É proibida a utilização de qualquer outro tipo de papel para anotação do gabarito.

ANOTE SEU GABARITO												PROVA DE COR																																				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49