# COBRA TECNOLOGIA S.A. CONCURSO PÚBLICO – 2012/001 ANALISTA DE OPERAÇÕES ANALISTA DE OPERAÇÕES ANALISTA DE OPERAÇÕES NOME DO CANDIDATO ASSINATURA DO CANDIDATO RG DO CANDIDATO

#### LEIA COM ATENÇÃO AS INSTRUÇÕES ABAIXO

#### **INSTRUÇÕES GERAIS**

**EXECUTION STATE OF CONTRACT O** 

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- Nesta prova, você encontrará 06 (seis) páginas numeradas sequencialmente, contendo 65 (sessenta e cinco) questões correspondentes às seguintes disciplinas: Língua Portuguesa (10 questões), Matemática (10 questões), Língua Inglesa (10 questões) e Conhecimentos Específicos (35 questões).
- II. Verifique se seu nome e número de inscrição estão corretos no cartão de respostas. Se houver erro, notifique o fiscal.
- III. Assine e preencha o cartão de respostas nos locais indicados, com caneta azul ou preta.
- IV. Verifique se a impressão, a paginação e a numeração das questões estão corretas. Caso observe qualquer erro, notifique o fiscal.
- V. Você dispõe de 03 (três) horas para fazer esta prova. Reserve os 20 (vinte) minutos finais para marcar o cartão de respostas.
- VI. O candidato só poderá retirar-se do setor de prova 1 (uma) hora após seu início.
- VII. O candidato não poderá levar o caderno de questões. O caderno de questões será publicado no site da ESPP, no prazo recursal contra gabarito.
- VIII. Marque o cartão de respostas cobrindo fortemente o espaço correspondente à letra a ser assinalada, conforme o exemplo no próprio cartão de respostas.
- IX. A leitora óptica não registrará as respostas em que houver falta de nitidez e/ou marcação de mais de uma alternativa.
- X. O cartão de respostas não pode ser dobrado, amassado, rasurado ou manchado. Exceto sua assinatura, nada deve ser escrito ou registrado fora dos locais destinados às respostas.
- XI. Ao terminar a prova, entregue ao fiscal o cartão de respostas e este caderno. As observações ou marcações registradas no caderno não serão levadas em consideração.
- XII. É terminantemente proibido o uso de telefone celular, pager ou similares.



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DESTAQUE AQUI

GABARITO DO CANDIDATO - RASCUNHO

#### Inscrição: Nome: Assinatura do Candidato: 10 19 20 21 22 23 12 13 15 16 18 24 25 26 27 36 30 35 37 38 49

#### LÍNGUA PORTUGUESA

### Para responder às questões de 1 a 3, leia o trecho abaixo, da obra de Graciliano Ramos.

"Agora Fabiano conseguia arranjar as ideias. O que o segurava era a família. Vivia preso como um novilho amarrado ao mourão, suportando ferro quente. Se não fosse isso, um soldado amarelo não lhe pisava o pé não. O que lhe amolecia o corpo era a lembrança da mulher e dos filhos. Sem aqueles cambões pesados, não envergaria o espinhaço não, sairia dali como onça e faria uma asneira. Carregaria a espingarda e daria um tiro de pé de pau no soldado amarelo. Não. O soldado amarelo era um infeliz que nem merecia um tabefe com as costas da mão. Mataria os donos dele. Entraria num bando de cangaceiros e faria estrago nos homens que dirigiam o soldado amarelo. Não ficaria um para semente. Era a ideia que lhe fervia na cabeça. Mas havia a mulher, havia os meninos, havia a cachorrinha."

#### Considere as afirmações abaixo.

- Fabiano é um personagem que não se submete ao poder estabelecido, pois reage aos desmandos do soldado.
- A conjunção "mas" estabelece relação de adversidade e justifica o comportamento de Fabiano diante do soldado.

#### Está correto o que se afirma em

a) somente I

c) lell

b) somente II

d) nenhuma

#### 2) Considere as afirmações abaixo.

- I. Trata-se de um texto narrativo, em primeira pessoa.
- Observa-se no trecho a presença de discurso direto e indireto livre.

#### Está correto o que se afirma em

a) somente I

c) lell

b) somente II

d) nenhuma

#### 3) Considere o período abaixo.

Era a ideia que <u>lhe</u> fervia na cabeça.

A função sintática do termo destacado é

- a) adjunto adnominal
- c) objeto direto
- b) adjunto adverbial
- d) objeto indireto

#### 4) Considere o anúncio e as afirmações abaixo.



- Há a presença da função apelativa da linguagem.
- A imagem sugere que o carro proporcionará um modo melhor de se conhecer o mundo.

#### Está correto o que se afirma em

a) somente I

c) lell

b) somente II

d) nenhuma

#### 5) Leia os períodos abaixo e assinale a alternativa correta.

- Se ficasse parada, não a alcançaria.
- II. Se levantou cedo para vê-lo partir.
- a) Há erro de colocação pronominal apenas em I.
- b) Há erro de colocação pronominal apenas em II.
- c) Há erros de colocação pronominal em I e II.
- d) Não há erros de colocação pronominal em I e II.

#### 6) Assinale a alternativa que indica, correta e respectivamente, os processos de formação das palavras "guarda-sol", "felizmente" e "quilo".

- a) Derivação por sufixação, composição por justaposição e redução.
- b) Composição por justaposição, redução e derivação por sufixação.
- c) Composição por justaposição, derivação por sufixação e redução.
- d) Redução, composição por justaposição e derivação por sufixação.

# 7) Assinale a alternativa que indica corretamente a função sintática de "pela atendente" na oração abaixo.

O presente foi caprichosamente embalado pela atendente.

- a) Objeto direto.
- c) Agente da passiva.
- b) Objeto indireto.
- d) Complemento nominal.

#### 8) Considere o período e as afirmações abaixo.

Paulo, obedeça o seu pai!

- A pontuação está incorreta, pois a vírgula está separando o sujeito do verbo.
- II. Há um problema de regência verbal.

#### Está correto o que se afirma em

a) somente l

c) lell

b) somente II

d) nenhuma

#### 9) Considere o período e as afirmações abaixo.

A maior parte dos alunos que fizeram o teste achou difícil algumas questões.

- I. Há um erro de concordância nominal.
- II. Há um erro de concordância verbal.

#### Está correto o que se afirma em

a) somente l

c) lell

b) somente II

d) nenhuma

#### 10) Considere a oração e as afirmações abaixo.

Avaliou-se bem os projetos.

- I. O correto seria "avaliaram-se".
- II. A oração está na voz ativa.

#### Está correto o que se afirma em

a) somente I

c) lell

b) somente II

d) nenhuma

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#### **MATEMÁTICA**

#### 11) Sejam as afirmações:

- I) A soma entre dois números irracionais é sempre um número irracional.
- Toda dízima periódica pode ser escrita com uma fração de denominador e numerador inteiros.

III) 
$$\frac{7\pi}{4} > \frac{17}{2}$$

#### Pode-se dizer que:

- a) São corretas somente I e II.
- b) Todas são corretas.
- c) Somente uma delas é correta.
- d) São corretas somente II e III.

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12) As alturas de 8 pessoas de uma mesma família são dadas abaixo:

1,68; 1,70; 1,85; 1,72; 1,80; 1,65; 1,70; 1,90

A soma entre a moda, média e mediana das alturas dessas 8 pessoas é igual a:

a) 5,16

c) 5,20

b) 5,15

- d) 5,10
- 13) A solução do sistema  $\begin{cases} ax + 3y z = 4 \\ 2x y + bz = 9 \text{ onde } \underline{a} \text{ \'e o} \\ x + 2y 3z = -1 \end{cases}$

valor do determinante da matriz  $\mathbf{A} = \begin{bmatrix} -1 & 3 \\ -2 & 5 \end{bmatrix}$  e  $\underline{\mathbf{b}}$  é o

valor do determinante da matriz B =  $\begin{bmatrix} 2sen\alpha & \cos\alpha \\ -2\cos\alpha & sen\alpha \end{bmatrix} \acute{e}$ 

igual a:

c) {(-1, 3, 4)}

a) {(1,2,3)} b) {(2, -1, 3)}

- d) {(3,1,2)}
- 14) Com as letras A,B,C,D e E formam-se senhas de 4 letras com repetição. A probabilidade se escolhermos uma dessas senhas de modo que <u>não</u> há repetição de letras é de:
  - a)  $\frac{1}{5}$

c)  $\frac{24}{625}$ 

b)  $\frac{24}{125}$ 

- d)  $\frac{1}{4}$
- 15) A diferença entre a maior e a menor raíz da equação

$$\frac{(x-2)^2}{2} - \frac{x^2+2}{3} = -4 \text{ \'e igual a:}$$

a) 3

c) 2

b) 5

- d) 4
- 16) O domínio e imagem da relação R =  $\{(x,y) \in AxB/y = \frac{12-x}{2}\}$ , sendo A =  $\{x \in N/x \ge 2\}$  e B =  $\{y \in Z/0 < y < 10\}$ são, respectivamente:

a)  $D(R) = \{2,4,6,8,10,12\} \text{ e Im}(R) = \{0,1,2,3,4,5\}$ 

- b)  $D(R) = \{2,4,6,8,10\} e Im(R) = \{1,2,3,4,5\}$
- c) D(R)={1,2,3,4,5,6,7,8,9,10,11}e lm(R)= $\left\{\frac{1}{2},1,\frac{3}{2},2,\frac{5}{2},3,\frac{7}{2},4,\frac{9}{2},5,\frac{11}{2}\right\}$
- d)  $D(R) = \{ x \in N / x \ge 2 \} e Im(R) = \{0,1,2,3,4,5 \}$
- 17) Os pontos A,B e C, distintos, pertencem a uma reta r, sendo que o ponto B está entre os pontos A e C. Desse modo é incorreto afirmar que:
  - a)  $\overrightarrow{AB} \cap \overrightarrow{BC} = \overrightarrow{BC}$
  - b)  $\overrightarrow{BC} \cap \overrightarrow{BA} = B$
  - c)  $\overrightarrow{AB} \cup \overrightarrow{BC} = \overrightarrow{BC}$
  - d)  $\overrightarrow{AC} \cup \overrightarrow{BA} = \overrightarrow{AB}$

- 18) O apótema de um hexágono inscrito numa circunferência é igual a 8  $\sqrt{3}$  cm. A diagonal de um quadrado inscrito nesta mesma circunferência é igual a:
  - a) 32 cm

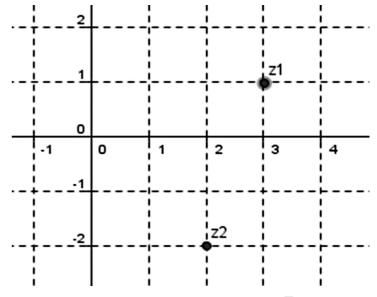
c)  $32\sqrt{2}$  cm

b)  $16\sqrt{2}$  cm

- d) 16 cm
- 19) O valor da expressão 3.cotg  $\alpha$  .  $\frac{\operatorname{sen}\alpha}{\operatorname{sec}\alpha}$  + 3.tg  $\alpha$  .  $\frac{\cos\alpha}{\operatorname{cossec}\alpha}$  com  $\alpha \neq k\frac{\pi}{2}; k \in \mathbb{Z}$ , é igual a:
  - a)  $3.tg\alpha$
- c) 1

b) 3

- d)  $3.\cot \alpha + 3\tan \alpha$
- 20) O módulo da divisão entre o conjugado do número complexo z2 e o número complexo z1, nessa ordem, cujos afixos são representados no plano abaixo, é igual a:



a)  $2\sqrt{5}$ 

c)  $\frac{2\sqrt{3}}{5}$ 

b) 3√2

d)  $\frac{2\sqrt{5}}{5}$ 

#### LÍNGUA INGLESA

Read the text The internet vigilantes: Anonymous hackers' group outs man, 32, 'who drove girl, 15, to suicide by spreading topless photos of her' and answer questions 21), 22), 23), 24), 25), and 26).

The internet vigilantes: Anonymous hackers' group outs man, 32, 'who drove girl, 15, to suicide by spreading topless photos of her'

Anonymous has named a man it claims posted topless pictures of a 15-year-old girl online and harassed her so relentlessly that she killed herself.

Amanda Todd, from Vancouver, Canada, was found hanged in her home on October 10, just weeks after she uploaded a video to YouTube detailing her horrific treatment at the hands of cyber bullies.

When she was just 12, a man in an internet chat room convinced her to flash her breasts, and a year later, he plastered a picture of the incident across Facebook.

Now in a vigilante move, Anonymous, the world's largest

hacking group, has named the man allegedly responsible for the picture.

The group claims that he is a 32-year-old from British Columbia, but MailOnline has chosen not to identify him for legal reasons.

As Todd's supporters set up Facebook pages warning the man to 'sleep with one eye open', the move by Anonymous sparks concerns over its abilities to create a 'trial by internet' - bypassing the justice system and casting guilt.

In a video posted to YouTube by Anonymous, a figure claims the group lists his personal information, including his date of birth and address.

It explains that his username appears on websites where he 'blackmailed' and gave advice to young girls. The same username is also tied to a website with a 'jailbait' photo gallery.

'[He] is an abomination to our society, and will be punished,' the Anonymous figure says.

Referring to the possibility they might have the wrong man, they add: 'At the most this is the person who did this to Amanda Todd, and at the least it's another pedophile that enjoys taking advantage of children.'

Following Anonymous' announcement, the web moved swiftly, with groups calling for his death and warning him to 'sleep with one eye open' cropping up on Facebook.

CKNW reporters have unsuccessfully tried to speak with the man, and neighbours have described his home as 'a known party house on the weekend with lots of young women coming and going'.

But police attended the home on Monday after a neighbour, Chyne Simpson, said Anonymous named the wrong address. He said he felt threatened by internet users and asked them to stay away.

The Royal Canadian Mounted Police refused to confirm Anonymous have the right man but a spokesperson said they were aware that someone had been named.

'We are aware of what's being posted online and certainly following up what we feel is important to follow up,' Sergeant Peter Thiessen told <u>The Globe and Mail</u>, adding: '[Vigilantes] run the risk of committing a criminal offence.'

Todd's family members also said they are not sure the Anonymous report is accurate and said police have tracked down a person living in the U.S. whom they believed was involved.

The claims come weeks after Amanda posted a nearly nine-minute YouTube video detailing her treatment on a stack of notecards held up to the camera,

Todd says that a year after she flashed her breasts, the man tracked her down and demanded he put on a show for him or he would expose her.

When she refused, he created a Facebook page with a list of her friends and used her naked chest as the profile photo. The picture quickly spread across the internet and among her classmates.

It led to relentless bullying online, she said, and she was diagnosed with depression and started drinking. In the video, posted September 7, she admitted that she had previously tried to kill herself twice and has been hospitalised.

After moving to a different city and school, another instance of bullying occurred after she started a romantic relationship with an older man who had a girlfriend. Once that relationship soured, she was confronted and beaten up by the man's girlfriend. She was hit in front of a crowd of screaming people who encouraged her to be left in a ditch.

Amanda does not speak in the video, and her face is not fully shown, but she confirmed her identity with the last notecard which says her name.

One of the final images is a jarring picture of her arm which had been cut repeatedly. Just under six weeks after posting the video, Todd could take the bullying no longer, and took her own life.

During a memorial for Todd on Monday, her friends said they have been aware of a man in his 30s 'stalking' their friend for years.

'There were multiple accounts with random names,' one friend told QMI Agency. 'There were Twitter accounts also used.'

The Vancouver Sun reported that Amanda was a student in Grade 10 at the Coquitlam Basic Alternative Education school.

The principal of the school confirmed her death and said

The principal of the school confirmed her death and said that she had become connected with many since she transferred

to the school in the middle of last year.

'It is a very sad case,' Paul McNaughton told the paper. 'I can tell you we feel we tried everything we could to help her when she came to us.'

Her death prompted a local politician to release a video of her own that pleads to put an end to bullying.

'I just heard about Amanda. I want to say to everyone who loved her, to all her family and friends, how sorry I am about her loss,' British Columbia premier Christy Clark said.

'No one deserves to be bullied. No one earns it. No one asks for it. It isn't a rite of passage. Bullying has to stop.'

http://www.dailymail.co.uk/news/article-2218532/Amanda-Todd-Anonymous-names-man-drove-teen-kill-spreading-nude-pictures.html

Mail Monday, October 16, 2012

#### 21) The main idea of the text is:

- a) Facebook pages advise people to 'sleep with one eye open', due to risks around internet.
- b) Teens, such as Amanda Todd, had been encouraged by Anonymous to show their intimacy in videos, later showed to a great number of people.
- c) Amanda Todd, 15, was found dead after killing herself to escape cyber bullies.
- d) There's a parallel line of police investigation, the Anonymous, which aims to find the one who had been blackmailing Amanda Todd.

#### 22) According to the text, the best alternative is:

- a) Amanda Todd may have used a gun to kill herself.
- b) Amanda Todd may have used a knife to kill herself.
- c) Amanda Todd may have used a belt to kill herself.
- d) Amanda Todd may have taken a great amount of drugs to kill herself.
- 23) The alternative that brings the best synonym in its base form to the bold underlined word in the text page "Anonymous has named a man it claims posted topless pictures of a 15-year-old girl online and <u>harassed</u> her so relentlessly that she killed herself." is:
  - a) Cudgeled.

c) Impaled.

b) Drubbed.

d) Besieged.

## 24) The alternative that brings <u>false</u> information about the text is:

- a) Police had threatened Chyne Simpson, an Anonymous member, during Amanda Todd's death investigation.
- b) Amanda Todd had faced bullying twice, before ending up committing suicide.
- After Amanda Todd's death, a video of hers was spread aiming to put an end to bullying.
- d) Three years before Amanda's death, intimate pictures of hers had been spread across Facebook.

# 25) The text page <u>Amanda Todd was found hanged in</u> <u>her home on October 10</u>, if written in active voice would be:

- a) Amanda Todd found a hanged in her home on October 10.
- Someone found Amanda Todd hanged in her home on October 10.
- Someone has found Amanda Todd hanged in her home on October 10.
- d) Amanda Todd had hanged herself in her home on October 10.
- 26) In the text page "One of the final images is a jarring picture of her arm which had been cut repeatedly. Just under six weeks after posting the video, Todd could take the bullying no longer, and took her own life", the bold underlined word is:
  - a) An adjective.

c) A verb.

b) An adverb.

d) A noun.

Read the following text page and answer questions 27), 28), and 29):

#### A NEW TYPE OF HACKTIVISM: ANONYMOUS BRANCHES OUT

Anonymous is an umbrella term for an internet subculture – a collection of individuals, or 'hacktivists', who share common ideas of anti-censorship and freedom of speech on the internet.

While Anonymous is focused on freedom of speech, releasing names of internet harassers is new territory for the group, which is best known for hacking government and company websites.

They have carried out cyber attacks on Visa, MasterCard, PayPal and Amazon, and have threatened to take down Facebook and Twitter servers.

The group has connections with the lesser-known hacking group LulzSec, short for Lulz Security, an elite hacker group that has claimed responsibility for high-profile, debilitating cyber attacks.

Their big hits include the compromising of user account data from Sony Pictures and taking the CIA website offline. They also attacked Fox.com, leaking the names of more than 7,000 X Factor contestants, and the PBS Newshour website, where they posted a story claiming that slain killer Tupac was still living and in New Zealand.

The group aims to cause mayhem and manipulate flaws in security and passwords systems. It is believed to have caused billions of dollars in damages to corporations, banks and agencies.

It hit the headlines in March this year after Hector Xavier Monsegur, one of the group's ringleaders and an influential member of Anonymous, turned fellow hackers over to authorities.

After his arrest in New York on hacking charges in June 2011, the 28-year-old reportedly began working with the FBI to bring down the groups' top members, and five were later arrested.

http://www.dailymail.co.uk/news/article-2218532/Amanda-Todd-Anonymous-names-man-drove-teen-kill-spreading-nude-pictures.html

Mail Monday. October 16, 2012

# 27) The alternative that brings the most comprehensive idea of the text is:

- a) So safe websites have been facing hacker attacks, leaded by Hector Xavier Monsegur, an ex FBI member.
- b) There's an internet group, which defends freedom of speech, but actually have been carrying through cyber attacks.
- c) High-profile hacker groups have been supported by minor ones, such as LulzSec, in order to get together and perform huge cyber attacks.
- d) There's an internet group, which is focused on causing the chaos in huge websites, by manipulating flaws in their security and passwords systems.
- 28) The alternative that brings the best synonym to the bold underlined word in the text page "Anonymous is an <a href="umbrella">umbrella</a> term for an internet subculture a collection of individuals, or 'hacktivists', who share common ideas of anti-censorship and freedom of speech on the internet" is:

a) Narrow.

c) General.

b) Scanty.

- d) Considerate.
- 29) The verb tense of the bold underlined verb in the text page "It <u>hit</u> the headlines in March this year after Hector Xavier Monsegur, one of the group's ringleaders and an influential member of Anonymous, turned fellow hackers over to authorities" is:
  - a) Simple past.

c) Present perfect.

b) Simple present.

d) Past perfect.

#### In each of the following text pages, a connective is missing.

- I. "Six months ago, saving Libya from potential atrocities inspired by Moammar Gadhafi meant establishing a nofly zone over the country, all the better to protect Benghazi, the rebel stronghold in the east. \_\_\_\_\_ classic mission creep set in and the NATO forces, Canada among them, were bombing Tripoli and clearly trying to eliminate Africa's longest-standing dictator and his sons (while denying that was the goal)."
- III. "Older people are facing a scarcity of qualified nurses to care for them \_\_\_\_\_\_ the Government changes its policy on undergraduate education, a leading nursing organisation has warned.

The All-Ireland Gerontological Nurses Association (AIGNa) is calling for the urgent introduction of specialised nursing degree courses in care for older people – as an estimated 700 jobs remain unfilled in the sector."

# The alternative that respectively brings the correct connective for each one is:

- a) As far as / however / then.
- b) Nevertheless / however / as far as.
- c) Unlike / unless / as far as.
- d) Then / however / unless.