

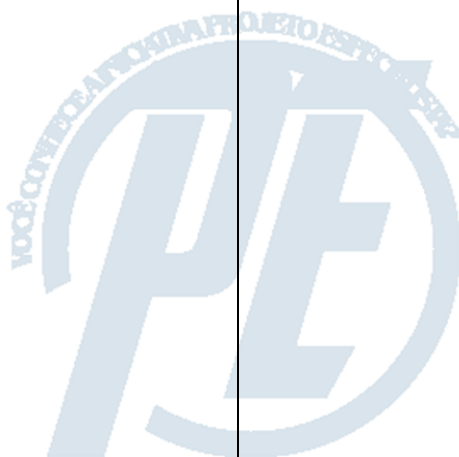
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INGLÊS | [BCT] MARCADORES DE DISCURSO

1. For you to make a cake, you need sugar, flour _____ eggs.

- a) and
- b) or
- c) so
- d) too

2. _____ sugar, flour and eggs, you need milk to make a cake.

- a) similarly
- b) on the contrary
- c) in addition to
- d) nevertheless

3. I like barbecue, _____ I prefer fried chicken.

- a) with
- b) but
- c) so that
- d) therefore

4. You have to be careful when you drive, _____ there are many car accidents nowadays.

- a) because
- b) but
- c) although
- d) on the other hand

5. The service at this restaurant is excellent. _____, the food is terrible!

- a) since
- b) then
- c) moreover
- d) however

6. "She has tried to reach them four times on the phone without success. Hence she needs to write them as her last option." The underlined connective expresses the idea of:

- a) addition
- b) conclusion
- c) enumeration
- d) contrast
- e) concession

7. Well, I think we can declare the meeting closed. _____, who's going to have lunch at the canteen today?

- a) anyway
- b) by the way
- c) then
- d) throughout

8. Complete the dialogue below.

A: Did he look sad?

B: No, _____ Correct, he was really cheerful.

- a) but
- b) except
- c) moreover
- d) as a matter of fact

9. The north of the country is industrialised and rich _____ Wrong the south is quite poor, with an economy based on agriculture.

- a) whereas
- b) basically
- c) what's more
- d) actually

10. "The economic downturn has affected many households in the United States. U.S. homeowners have continued investing their money in the stock market though". The underlined connective expresses the idea of:

- a) conclusion
- b) time
- c) emphasis
- d) contrast
- e) addition

11. We'd better find a quick solution to this crisis, _____ Wrong our customers will start to lose faith in us.

- a) in fact
- b) at least
- c) otherwise
- d) however

12. He says he's not wealthy, and _____ he owns a house at the beach and drives a BMW.

- a) so
- b) so that
- c) because
- d) unless
- e) yet x

13. Television turns people into lazy couch potatoes. _____, there are some educational programmes on.

- a) quite the contrary
- b) on the other hand
- c) on the one hand
- d) on the two hands

14. __, I would like to welcome you all to the conference today.

- a) firstly
- b) in fact
- c) actually
- d) thus

15. Why do you think I don't want to go out tonight. __, I would be delighted to get out of the house.

- a) actually
- b) whereas
- c) though
- d) secondly

16. I got up at 9 o'clock yesterday and had a cold shower. __, I had breakfast and left for work.

- a) so
- b) them

- c) then
- d) soon

17. It wasn't a good thing; __ it was a huge mistake.

- a) nevertheless
- b) therefore
- c) never mind
- d) on the contrary

18. Para a questão, escolha a alternativa que complete a sentença corretamente:

_____ the cost of a college education at Central Wyoming College is relatively low, many students need and receive financial aid.

- a) Although
- b) Besides
- c) No sooner
- d) Despite
- e) However

19. Choose the correct option to complete the paragraph below.

Is an autonomous ship a 'ship' in the eyes of the law?

Different definitions of 'ship' appear in different statutes and conventions, and it has often fallen to judges to decide if a floating object is, or is not, a 'ship'. _____, none of the definitions of 'ship' requires that the floating object be manned, generally simply requiring that it be used or be capable of being used in navigation.

Whether this is by remote control or fully autonomous would not appear to be a problem in terms of the legal definition of a 'ship'. It appears probable, _____, that autonomous ships are likely to fall within the legal definition of 'ship' and so will have to comply with the relevant laws and conventions _____ the laws themselves might require some modification.

- a) Also / however / even so
- b) Because / otherwise / anyhow
- c) Moreover / instead / in addition
- d) Hence / as well / in spite of

e) However / therefore / although

Read the text and answer question 20.

The War at Home: The Struggle for Veterans to Find Jobs

In today's tough and competitive job market, it can be challenging for any adult to land a decent job. Though education can definitely improve outcomes, sometimes it's not just about the degree. Experience can also play a major role in helping people find jobs. Yet in some cases, if you do not have the right kind of experience, this may be of little help. Just ask one of the many college-educated military veterans who serve their country only to return to find a job market that will treat them as rookies.

Army veteran John Lee Dumas said he had zero anxieties about finding a job after graduating college and had been told that his military experience would give him a leg up on other candidates. But things did not turn out that way.

"I quickly found out that I was lumped together with recent college grads for entry-level positions, and that an employee that had two years' experience at a job in a similar industry was considered way more qualified than I was despite my four years as an officer in the army", Dumas said.

20. Considering the text, which word can replace "despite" in this extract: "[...] despite my four years of experience [...]?"

- a) Whatever.
- b) Moreover.
- c) Wherever
- d) In spite of.
- e) However.

INGLÊS | SHORT ANSWER AND QUESTION TAG

1. Maria hasn't forgotten about the meeting, _____?

- a) has she
- b) have she
- c) hasn't she
- d) has not she

2. Are they sad? Yes, they _____.

- a) be
- b) are
- c) am
- d) is

3. Am I a good student? Yes, _____.

- a) I am
- b) I do
- c) I did
- d) You are

4. Joe is keen on sport, _____?

- a) aren't he
- b) aren't it
- c) isn't he
- d) doesn't he

5. Do they deliver on Sundays? No, _____.

- a) they are
- b) them aren't
- c) their doesn't
- d) they don't

6. Does he live abroad? No, _____.

- a) he doesn't
- b) he isn't
- c) he don't
- d) he does

7. Are you a writer?

- a) Yes, I'm

- b) Yes, am I
- c) Yes, I am
- d) No, am not I

8. You're going to work harder from now on, _____?

- a) aren't you
- b) aren't going to you
- c) aren't going
- d) not going you

9. I'm late again, _____?

- a) am not I
- b) amn't I
- c) I am not
- d) aren't

10. Mary will come tonight, won't she? is an example of:

- a) Question-tags.
- b) Short answer.
- c) Indirect speech.
- d) Reported speech.

11. Choose the alternative that completes the sentence correctly:

You wouldn't believe him, _____?

- a) do you
- b) don't you
- c) would you
- d) wouldn't you

12. Can you speak Catalan?

- a) Yes, I know
- b) Yes, Can I
- c) No, I cannot
- d) No, I didn't

13. Have you got a match?

- a) Yes, I had

- b) Yes, I has
- c) Yes, I have
- d) No, I haven't not

14. Look at the following statements and choose the correct question tags:

- 1 – It snowed last night, _____?
- 2 – She shouldn't be aggressive to people, _____?
- 3 – You haven't closed the door, _____?
- 4 – You are going to the party with us, _____?

- a) doesn't it – shouldn't she – aren't you – going you
- b) didn't it – should she – have you – aren't you
- c) did it – should she – haven't you – aren't you
- d) didn't it – ought to – have you – will you

15. Which is the correct alternative to complete this sentence?

"There's been a rumor that Jane is seeing someone from the office, (1) ____?"

- a) is there
- b) isn't there
- c) has there
- d) hasn't there
- e) doesn't it

16. Are you in love?

- a) Yes, I am
- b) Yes, I'm
- c) No, aren't
- d) No, we don't

17. Can I meet her one day?

- a) Yes, I can
- b) No, you couldn't
- c) Yes, you can
- d) No, you can

18. Have they read the book?

- a) Yes, they has
- b) No, they haven't
- c) Yes, they are

d) No, they don't

19. Do you see each other very often?

- a) Yes, very often
- b) No, we don't
- c) No, we doesn't
- d) Yes, we are

20. Have you got a boyfriend?

- a) No, I am not
- b) Yes, I have
- c) Yes, I got
- d) No, I hasn't

21. Which of the options completes the dialogue correctly?

The Linden Tree

Mrs Linden: (...) You'd like some tea, _____ you, Rex?

Rex: A cup, certainly.

Jean: And _____ Marion and I.

- a) would/neither would
- b) wouldn't/so would
- c) had/nor had
- d) hadn't/so had
- e) didn't/neither did

22. In "...so I went to the mall and saw Jimmy, do you know him?" choose below the correct answer for the question:

- a) Jimmy! Yes, we do.
- b) Jimmy! Yes, we does.
- c) Ahn? Jimmy? No, I am not.
- d) Ahn? Jimmy? No, I haven't.

23. Choose the option with the correct tag questions for the sentences below.

- 1) Come here _____?
- 2) Let's talk, _____?
- 3) I'm late, _____?
- 4) Don't close your eyes, _____?

- a) won't you / won't we / aren't / do you
- b) won't you / shall we / aren't I / do you
- c) will you / shall we / aren't I / will you
- d) will you / won't we / am I not / will you
- e) will you / shan't we / am I not / do you

24. A tag question is

- I. a short question that follows a statement.
- II. affirmative-negative (Mary was sad, wasn't she?) or negative-affirmative (Mary wasn't sad, was she?).
- III. when in the past, the question tag is always in the Present Perfect.

Which ones are correct?

- a) Only I.
- b) Only II.
- c) Only III.
- d) Only I and II.
- e) Only II and III.

25. Consider the sentences below:

1- 66% of North American recruiters agreed that being bilingual will be increasingly important, _____?

2- They are able to deal with a wide array of clients, _____?

3- Let's visit the Willard InterContinental hotel, _____?

Check the option that presents the correct question tags that complete the sentences above, respectively:

- a) won't they / don't they / will you.
- b) don't they / aren't they / will we.
- c) don't they / don't they / don't we.
- d) didn't they / aren't they / shall we.
- e) didn't they / aren't they / won't we.

26. Read the dialogue below and complete the blank correctly.

A: Ring! Ring!

B: Hello, you have reached Alpine academy. This is Carol. How may I help you?

A: Hi, my name is Eleanor Wright. I am calling to inform you that my child is sick and will not be in school today.

B: What is your child's name?

A: Anna Wright.

B: Anna ... she wears a blue bracelet, _____?

- a) didn't she
- b) doesn't she
- c) aren't she
- d) does she

27. Choose the option with the correct tag questions for the sentences below.

I - Let's start the presentation, _____?

II - Nobody phoned, _____?

III - Don't open your books, _____?

IV - There is a nice restaurant near here, _____?

- a) won't we/ did they/ do you/ is there
- b) will we/ didn't they/ don't you/ isn't there
- c) shall we/ did they/ do you/ isn't there
- d) shall we/ did they/ will you/ isn't there
- e) will we/ didn't they/ will you/ is there

28. Choose the option with the correct tag questions for the sentences below.

1. You weren't listening, _____?

2. She doesn't know him, _____?

3. I'm a bit overweight, _____?

4. Don't open your eyes, _____?

- a) weren't you / does she / aren't I / do you
- b) were you / doesn't she / aren't I / do you
- c) were you / does she / aren't I / will you
- d) weren't you / doesn't she / am I not / do you
- e) were you / doesn't she / am I not / do you

29. One extracted fragment has its correct Tag Question. Mark the item.

- a) The bilingual experience appears to influence the brain from infancy to old age, don't they?
- b) Bilingualism's effects also extend into the twilight years, has it?

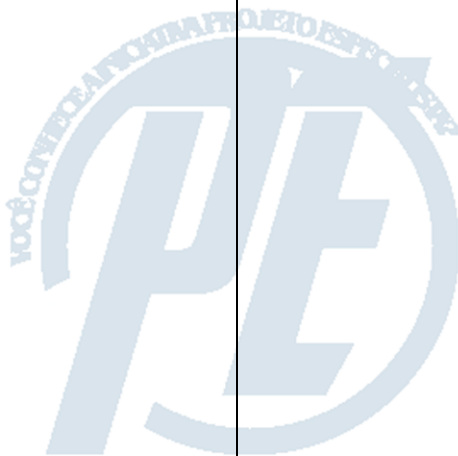
- c) These processes include ignoring distractions to stay focused, aren't they?
d) Nobody ever doubted the power of language, did they?

30. Match the questions to the answers.

- (1) Are you on vacation?
(2) Where's she from?
(3) Are you and Ana married?
(4) Is Julie Italian?

- () Yes, we are.
() She's from Italy.
() No, she isn't.
() No, I'm not.

- a) 3-2-4-1
b) 1-2-4-3
c) 3-4-2-1
d) 1-4-2-3
e) 1-4-3-2



INGLÊS | [BCT] PREFIXO E SUFIXO

1. Complete as lacunas usando o prefixo/sufixo abaixo corretamente:

Re – Dis – Un – Ful – Mid – ish – Re - Hood

- a) I need to _____ (organize) my backpack.
- b) We does not want to _____ (obey) his teacher.
- c) She was quite _____ (cooperative).
- d) My friends were very _____ (care).
- e) He can come to the party _____ (week).
- f) It is pretty _____ (fool) to jump off the monkey bars.
- g) Please _____ (build) the toy for your sister.
- h) The _____ (brother) of knights was based on loyalty.

2. In “misspell”, the suffix -miss means _____

- a) spell incorrectly
- b) don't agree
- c) to think before
- d) not capable

3. Mark the alternative in which the word is NOT formed with a suffix:

- a) balcony.
- b) formerly.
- c) obliquely.
- d) quietly.

4. A terminação -er nas palavras fewer, speaker e other, assume funções distintas: gera o comparativo; indica o agente que assume determinada atividade ou posição; compõe a raiz da palavra.

A alternativa em que se encontram palavras seguindo os mesmos processos de formação, respectivamente, é:

- a) prettier – polluter – filter.
- b) sunnier – owner – builder.
- c) barrier – composer – further.
- d) order – soldier – powder.
- e) outsider – trainer – loser.

5. The negative prefix un-, as in unpronounced, is also used with the adjectives below, EXCEPT:

- a) Perceptible.
- b) Perturbed.
- c) Productive.
- d) Paralleled
- e) Principled.

6. The prefix un- as in “unfortunately” and “unequally” means:

- a) against.
- b) between.
- c) over.
- d) not.
- e) across.

7. The only word that has the same suffix as in “astronomer” is

- a) carrier
- b) disaster
- c) newspaper
- d) forecaster

8. A terrible thing happened to teacher Emma Rodriguez last year. Her little son, Edgar, drank some floor cleaner. She took him to the hospital. Edgar was OK and out of danger. But Emma decided that she wanted to make her home safer and happier.

In “teacher”, underlined in the paragraph, the suffix – “er” has the same function as the one in

- a) safer.
- b) danger.
- c) cleaner.
- d) happier.

9.

The Dark Knight Rises massacre has left Colorado in shock and grief, but there has been a miracle

- 01 The mother of the youngest victim of the shooting spree was pregnant, and her unborn baby is still alive. Ashley Moser, 25, is still fighting for her life in intensive care, despite being shot three times – once in the stomach and
- 05 twice in the throat. Ashley is the mother of Veronica-Moser Sullivan, who was killed in the cinema after alleged gunman James Holmes opened fire. Her brother Robert said: “I don’t know how, but she still has the baby. Yesterday I was told she had lost it and today it’s OK. It’s a miracle!”
- 10 Since the shooting, Ashley has been in and out of consciousness. Veronica’s father Ian Sullivan, 26, has also spoken after the death of his daughter, saying: “She is the last girl I will ever love.” On his MySpace page, Ian described his little girl as “his number one heroine”.
- 15

(Adapted from www.news.com.au)

GLOSSARY

grief – em luto
 shooting spree – tiroteio “repentino”
 alleged – acusado

“unborn baby”, the underlined word means

- a) not wanted.
- b) not yet born.
- c) recently born.
- d) born before the usual time of birth.

10. Leia a charge.



This cartoon can be used as a resource to teach or review the use of prefixes in the English language. You may offer your students the following words and ask them to choose the alternative in which the prefix has the same meaning as “un”. Your students should mark alternative

- a) disappear.

- b) overwork.
- c) deteriorate.
- d) mistreat.
- e) incriminate.

Read the text and answer question 11.

A Miracle Cure?

- 1 More and more people are turning away from their doctors and, instead, going to individuals who have no medical training and who sell unproven treatments. They go to quacks to get everything from treatments for colds to cures for cancer.
- 5 Quacks usually sell products and treatments for illnesses that generally have no proven cure. Other common quackeries are treatments to lose weight quickly, to make hair grow again, and to keep a person young.
- 10 Many people don’t realize how unsafe it is to use unproven treatments. So why do people trust quacks? People want the “miracle cure”. They want the product that will solve their problem... quickly, easily and completely.
- 15 You are not powerless. Before you buy a product or treatment, talk to a doctor, pharmacist or another health professional. Don’t make the mistake of letting yourself or anyone you know become a victim of health fraud. It could cost you a lot of money or, worse yet, your life.

(Taken from Healthier You Magazine)

GLOSSARY

quacks – pessoas que vendem produtos ou tratamentos de saúde que não funcionam
 to turn away from – afastar-se, recusar-se a ver

11. If the treatments are unproven, (line 3), it means that they _____.

- a) really work
- b) are successful
- c) are not proved or tested
- d) can be legally prescribed

Read the text and answer question 12.

- 1 Are you hardworking, anxious, introverted and conscientious? If so, you’re probably a victim of workplace bullying. Researchers at Hull University have suggested a personality test to recognize people at risk of being bullied.
- 5 The study _____ that companies give potential victims adequate training and social support at work so that they can be prevented from feeling ignored and humiliated.

(Adapted from Speak Up # 140)

GLOSSARY

bullying – gozações, perseguições, isolamento no trabalho.
 at risk – que corre o risco.

12. In “researchers”, (line 3), the suffix – “er” has the same function as the one in

- a) nicer.
- b) harder.
- c) worker.
- d) transfer.

Read the text and answer question 13.

Duo from Minas is a hit in Brazil

1 Victor is 33 years old and his brother Leo is 32. They were born in (1) Minas Gerais and began playing together in 1994, in Belo Horizonte. Seven years later they went to São Paulo, where they continued to play in bars and clubs. From (2) 2002 to 2005 they released three CDs – Victor composed most of the songs. Recently they released their fourth CD, called “Borboletas”.

5

10 Despite their success, they have not managed to (3) please everyone. A lot of people have a kind of prejudice against (4) sertaneja music and think it is cheesy and bland whereas on the Internet the musicians have been very successful. On YouTube their videos have been watched by (5) over (6) 20 million people.

15

Adapted from a text of Maganews

GLOSSARY:

- to please = agradar
- prejudice = preconceito
- cheesy = meloso, brega
- bland = sem criatividade, “sem sal”
- whereas = enquanto que
- despite = apesar de

13. In “later”, the suffix – “er” has the same function as the one in

- a) differ.
- b) player.
- c) follower.
- d) healthier.

14. In “(...) and despite an **unresolved** lawsuit that has delayed the project (...)”, the word in bold is formed by the prefix ‘un’. In which option below the word is not correctly formed by the same prefix?

- a) unfinished
- b) unfasten
- c) unwrapped
- d) undecided
- e) unpolite

15. The prefix un as in ‘unclear’ is used correctly in all alternatives EXCEPT:

- a) unconscious
- b) uninteresting
- c) unfold
- d) undetermined
- e) unexpensive

16. Which of the alternatives below completes the sentence correctly?

“Because he was driving so ____ (1) he was (2) hurt in the accident .”

- a) fastly - hardly
- b) quick - serious
- c) fast - seriously
- d) fastly - badly
- e) quickly - serious

17. Consider the following assertives about the word ‘meaningfulness’:

- I. It means ‘not full of meaning’.
- II. It is an adverb.
- III. It is formed by adding two prefixes.

Which ones are INCORRECT?

- a) Only I.
- b) Only II.
- c) Only III.
- d) Only I and III.
- e) I, II and III.

18. Which set of words contain both a prefix and a suffix? Choose the CORRECT answer.

- a) Worker / Overwork
- b) Immoral / Supermarket
- c) Repainting / Unhelpful
- d) Endlessly / Unlikely

Read the text and answer question 19.

While at home in Ireland my poor mother wept bitter tears at the thought of her daughter with

the university education serving hamburgers to pop stars.

I had been working there about six months the night I met James. It was a Friday night, which was traditionally the night the OJs frequented our restaurant. "OJ" standing, of course, for Office Jerks.

At five o'clock every Friday, like graves disgorging their dead, offices all over the center of London liberated their staffs for the weekend so that hordes of pale, cheapsuited clerks descended on us.

It was de rigueur for us waitresses to stand around sneering disdainfully at the besuited clientele, shaking our heads in disbelieving pity at the attire, hairstyles, etc., of the poor customers.

On the night in question, James and three of his colleagues sat in my section and I attended to their needs in my normal irresponsible and slapdash fashion. I paid them almost no attention whatsoever, barely listened to them as I took their order and certainly made no eye contact with them. If I had I might have noticed that one of them (yes, James, of course) was very handsome, in a black-haired, green-eyed, five-foottenish kind of way. I should have looked beyond the suit and seen the soul of the man.

19. In the sentence "I might have noticed that one of them (yes, James, of course) was very handsome, in a blackhaired, green-eyed, five-foottenish kind of way.", the suffix -ish in 'five-foottenish' indicates

- a) about five feet.
- b) more than five feet.
- c) less than five feet.
- d) far from five feet.

Read the text and answer question 20.

NATO ships, helicopters hunt down 7 pirates

NAIROBI, Kenya - NATO warships and helicopters pursued Somali pirates for seven hours after they attacked a Norwegian tanker, NATO spokesmen said Sunday, and the high-speed chase only ended when warning shots were fired at the pirates' skiff. Seven pirates attempted to attack the Norwegian-flagged MV Front Ardenne late Saturday but fled after crew took evasive maneuvers and alerted warships in the area, said Portuguese Lt. Cmdr. Alexandre Santos Fernandes, aboard a warship

in the Gulf of Aden, and Cmdr. Chris Davies, of NATais maritime headquarters in England.

"How the attack was thwarted is unclear, it appears to have been the actions of the tanker," Davies said. Fernandes said no shots were fired at the tanker.

Davies said the pirates sailed into the path of the Canadian warship Winnipeg, which was escorting a World Food Program delivery ship through the Gulf of Aden. The American ship USS Halyburton was also in the area and joined the chase.

"There was a lengthy pursuit, over seven hours," Davies said. The pirates hurled weapons into the dark seas as the Canadian and U.S. warships closed in. The ships are part of NATais anti-piracy mission.

"The skiff abandoned the scene and tried to escape to Somali territory," Fernandes said. "It was heading toward Bossaso but we managed to track them. Warning shots have been made after several attempts to stop the vessel."

20. In the sentence "There was a lengthy pursuit, over seven hours", there is a word formed by the suffix "y". In which option below the word is formed by the same suffix?

- a) lately
- b) mostly
- c) fury
- d) ally
- e) healthy

INGLÊS | IF CLAUSES

1. If it rains, we _____ at home.

- a) will
- b) will stay
- c) will be stay
- d) will be

2. If you studied harder, you _____ better marks in your tests.

- a) would get
- b) wouldn't got
- c) will get
- d) would have got

3. I would have called you earlier if I _____ your phone number.

- a) lost
- b) will lose
- c) had lose
- d) had not lost

4. My mum will bake a cake if you _____ to see us.

- a) come
- b) will come
- c) came
- d) would come

5. You should have called the Master if the problem

- a) continue.
- b) has continued.
- c) was being continued.
- d) would have continued.
- e) had continued.

6. Which of the alternatives below correctly completes the sentence?

According to some scientific studies, if children (1) _____ exposed to dirt early in life, their immune system will be strengthened.

- a) is

- b) are
- c) will be
- d) won't be
- e) were

7. The sentence "If young people don't control the hours they spend on-line, they won't stay out of trouble." can be correctly replaced by:

- a) Unless young people control the hours they spend on-line, they will stay out of trouble.
- b) Unless young people control the hours they spend on-line, they won't stay out of trouble.
- c) If young people controls the hours they spend on line, they will unless stay out of trouble.
- d) Unless young people don't control the hours they spend on line, they won't stay out of trouble.

8. Select the alternative that completes the sentence below in the third conditional.

If she hadn't read the news magazine, she _____.

- a) hadn't seen the ad
- b) would see the ad
- c) couldn't see the ad
- d) wouldn't have seen the ad

9. Mark the correct option to complete the sentence. 'Why aren't you going to London with your parents?'

'If only I _____ enough time, I'd certainly go with them.'

- a) was having
- b) will have
- c) would have
- d) had
- e) have

10. Mark the option in which the if-clause expresses that it is possible, but very unlikely, that the condition will be fulfilled.

- a) If I'd seen her, I would have asked her to call Mary.
- b) If you get a taxi, you will get there in no time.

- c) If I found her address, I would send her an invitation.
- d) If I am late for work, my boss gets angry with me.
- e) If I had passed this exam, I would have been promoted.

11. Which option is NOT correct?

- a) If your mother will fill in this form, I'll prepare her ticket.
- b) If Ann won't be here on Monday, we'd better cancel the meeting.
- c) If you should run into Peter, tell him he owes me a letter.
- d) Hadn't we missed the plane, we would all have been killed in the crash.
- e) If it hadn't been for your help, I don't know what I'd have done.

12. Which is the best sequence to complete the paragraph?

Dangerous bacteria can become resistant to antibiotics if they _____ prescribed too often. That is why the overuse of antibiotics is harmful.

- a) won't be
- b) are
- c) will be
- d) aren't
- e) can't be

13. Mark the correct sentence.

- a) What would you do if you see a bug in your food?
- b) If you'll have some time tonight you should study.
- c) When I graduate, I'll apply for a job in another country.
- d) If it will rain tomorrow, I won't go out.
- e) I'll give you a call as soon as I'll get home.

14. The conditions expressed in the sentences "If they had known the outcomes, they would have taken different measures" and "you should know people better, if you really want to make more friends" are, respectively:

- a) unlikely / unlikely

- b) impossible / unlikely
- c) likely / unlikely
- d) impossible / likely
- e) likely / impossible

15. Which alternative below is INCORRECT?

- a) If my father were alive, he would be turning 70 next week.
- b) If my boyfriend would have a job, we could get married.
- c) They would be happier if they had a house by the sea.
- d) Would you go to the party if you weren't feeling well?
- e) I would go out with him if he was more polite.

16. Para a questão, escolha a alternativa que complete a sentença corretamente:

If we don't hurry up, all the best seats _____.

- a) will take
- b) take
- c) will be taken
- d) are taken
- e) would be taken

17. Which of the sentences below is INCORRECT?

- a) If the Earth dies, you die. If you die, the planet surely survives.
- b) If you don't want to wait 1.5 seconds, press Control-Power button.
- c) I will not go away if you promise to change and behave yourself.
- d) You could see it through my eyes if you would realize how special you are.
- e) My mother is going to kick me out tomorrow unless I stop all contact with my boyfriend.

18. Choose the correct alternative to complete the following sentence:

"If she hadn't been so bad-tempered, I _____ her."

- a) shall have married
- b) ought to have married

- c) might have married
- d) will have married
- e) must have married

19. Read this paragraph.

"Innovative" IBM Kills Working from Home

If you would list the reasons why IBM's growth isn't what management wants it to be, geographic dispersal probably wouldn't be in the top ten. WFH only works if you can actually assess on an ongoing basis what work is getting done, but then again that's true for in-office work as well. Lazy managers assume work is getting done if you're in the office, just as delusional ones assume everyone works productively and independently if they are remote. But if the actual performance goes down due to lower motivation and wasted time, then it is a problem.

Which option contains a sentence with INCORRECT grammar?

- a) "If you would list the reasons why IBM's growth isn't what management wants it to be, geographic dispersal probably wouldn't be in the top ten."
- b) "WFH only works if you can actually assess on an ongoing basis what work is getting done".
- c) "Lazy managers assume work is getting done if you're in the office".
- d) "[...] delusional ones assume everyone works productively and independently if they are remote."
- e) "But if the actual performance goes down due to lower motivation and wasted time, then it is a problem."

20. Rosana Fisher works at an outdoor activities centre on the west coast of Scotland. She teaches mountain climbing, scuba diving and hang-gliding. She's talking to some young people who've just arrived at the centre:

- I - 'You can't do any of the activities unless you're with an instructor.'
- II - 'We won't let you start an activity if you don't have the correct equipment.'
- III - 'You can't go scuba diving unless you've done the training course.'

IV - 'Remember you can't leave the centre unless you say where you're going.'

Mark the option which shows another way to rewrite the conditional sentences above, correctly.

- I - You can do none of the activities if you don't be with an instructor.
- II - We will not let you start an activity unless you have the correct equipment.
- III - You cannot going scuba diving if you haven't done the training course.
- IV - Remember you can't leave the centre if you don't say where you go.

- a) I, II and III.
- b) II and IV.
- c) I, II and IV.
- d) III and IV.

21. Choose the alternative with the verbs that correctly complete the sentences below.

- 1 - If I were you, I ____ him the truth.
- 2 - If I had been in your place, I ____ this.
- 3 - If I knew her name, I ____ you.
- 4 - If I hadn't saved money, I ____ this sports car now.
- 5 - If it rains next Sunday, I ____ home.

- a) tell – wouldn't say – will tell - will buy – will stay
- b) told – would say – would tell - would buy – would have stayed
- c) would tell – wouldn't have said – should tell – wouldn't buy – will stay
- d) will tell - would have said – had told – buy – would stay
- e) would have told – wouldn't have said – should tell – am buying – will stay

INGLÊS | ESTRUTURAS GRAMATICAIAS

1. A hotel is a place _____ people stay when they're on holiday.

- a) where
- b) when
- c) who
- d) which

2. What do you call someone _____ writes computer programs?

- a) how
- b) which
- c) whom
- d) that

3. Overalls are clothes _____ people wear to protect their clothes when they are working.

- a) whom
- b) which
- c) who
- d) where

4. He's the man _____ son plays football for Manchester Utd.score

- a) who
- b) whom
- c) whose
- d) which

5. In: "The bodies, which included a man of more than seven feet in height are thought to be of ordinary citizens, rather than the royalty found at many famous Egyptian sites." WHICH is a:

- a) Conjunction.
- b) Relative pronoun.
- c) Possessive pronoun.
- d) Interrogative pronoun.

6. In the sentence "The station is home to researchers who conduct studies...", the word who refers to

- a) station.
- b) researchers.
- c) home.
- d) studies.
- e) Ministry of Science and Technology and Innovation.

7. Add the phrase in brackets to the sentence using the correct pronoun and a relative clause:

She worked for a man (the man used to be an athlete)

- a) She worked for a man who used to be an athlete
- b) She worked for a man which used to be an athlete
- c) She used to be an athlete and worked for a man
- d) She worked for a man whom used to be an athlete

8. In: "The laptop that I bought last week has started making a strange noise!" this is an example of a/an:

- a) non-defining relative clause
- b) defining relative clause
- c) appositive clause
- d) restrictive appositive clause

9. Read the sentence below and choose the correct answer:

"I took a cookie from Gretel, the woodcutter's daughter."

- a) It's a defining relative clause
- b) "the woodcutter's daughter" isn't a essential information
- c) "the woodcutter's daughter" is the main sentence
- d) the preposition "the" is specifying something

10. Add the phrase in brackets to the sentence using the correct pronoun and a relative clause:

They called a lawyer (the lawyer lived nearby)

- a) My brother lives in Australia who I sent him an e-mail
- b) My brother lives in Australia, so I sent him an e-mail
- c) I sent an email to my brother whom lives in Australia

d) I sent an email to my brother who lives in Australia

11. In the fragment of the text "Among the reasons for rejecting Keystone XL, Obama said the pipeline would not make a meaningful long-term contribution to the U.S. economy, nor would it increase U.S. energy security or help to lower gas prices, which have already declined dramatically over the last year", the pronoun which refers to

- a) U.S. economy
- b) U.S. energy security
- c) pipeline
- d) gas prices
- e) long-term contribution

12. In "Bids will be opened in the presence of bidders who wish..." the relative pronoun may be replaced by

- a) that.
- b) while.
- c) when.
- d) those.
- a) which.

13. In "Finally, he met someone who knew 'coyotes' - people who smuggled others into the United States via Mexico." the relative pronouns can

- a) be replaced by that.
- b) refer back to things.
- c) be replaced by those.
- d) be replaced by which.
- e) refer back to quantifiers.

14. Choose the correct answer that presents an example of appositive prayer:

- a) I took a cookie from Gretel, who is the woodcutter's daughter.
- b) Joseph was cutting the wires when my daughter stopped me.
- c) I read a biography of Disraeli, the 19th-century statesman, and novelist.
- d) The bus is fast enough to hit someone, therefore is dangerous.

15. In: "John Reed, an American journalist, helped found the Communist Labor Party in America." this is an example of a/an:

- a) non-defining relative clause
- b) defining relative clause
- c) appositive clause
- d) restrictive appositive clause

16. The sentence: "My friend Evan James loves video games." is an example of a/an:

- a) restrictive appositive clause
- b) defining relative clause
- c) appositive clause
- d) non-defining relative clause

17. Leia as sentenças abaixo:

I. The waiter **that** served me at the coffe shop moved away.

II. He saw **that** the bottles were empty.

III. Carla told me **that** she was going to quit the restaurant where she works in.

IV. I didn't get the job **that** I applied for.

Em qual (is) das sentenças acima o uso do pronome relativo em negrito é extremamente necessário?

- a) I.
- b) I, IV.
- c) II, IV.
- d) III, IV.

18. About the use of relative clauses, read the sentences that follow:

I- The woman who lives next door is a doctor.

II- Everything what happened was my fault.

III- The machine that broke down is now working again.

IV- I don't like stories that have unhappy endings.

V- Where is the cheese which was in the fridge?

Choose the alternative with the correct answer:

- a) Statements I, II, IV and V are correct.
- b) Only statements I and II are correct.
- c) Statements I, III, IV and V are correct.

- d) Statements I, III and IV are correct.
- e) All the statements are correct.

19. The fragment from the last paragraph “who was her supervisor” is an example of an adjective clause. Mark the alternative in which the deletion of the relative pronoun (and only the relative pronoun) is possible.

- a) They looked at the pictures which were hanging from the wall and decided the one to be sold.
- b) We enjoyed the place where we spent our vacation.
- c) The star whose light we see now may have disappeared millions of years ago.
- d) The last exercise which was proposed by the examiner was by far the hardest.
- e) She stood under a flamboyant which was near her house.

20. A frase correta que corresponde a “Amazing underwater photos that show the growing gap” é:

- a) Amazing underwater photos. They show the growing gap;
- b) Amazing underwater photos. It shows the growing gap;
- c) Amazing underwater photos. She shows the growing gap;
- d) Amazing underwater photos. He shows the growing gap.

GABARITO INGLÊS

[BCT] MARCADORES DE DISCURSO

1. A
2. C
3. B
4. A
5. D
6. B
7. B
8. D
9. A
10. D
11. C
12. E
13. B
14. A
15. A
16. C
17. D
18. A
19. E
20. D

18. B
19. B
20. B
21. B
22. A
23. C
24. D
25. D
26. B
27. D
28. C
29. D
30. A

[BCT] PREFIXO E SUFIXO

1.
 - a) reorganize
 - b) disobey
 - c) uncooperative
 - d) careful
 - e) midweek
 - f) foolish
 - g) rebuild
 - h) brotherhood

SHORT ANSWER AND QUESTION TAG

1. A
2. B
3. A
4. C
5. D
6. A
7. C
8. A
9. D
10. A
11. C
12. C
13. C
14. B
15. D
16. A
17. C

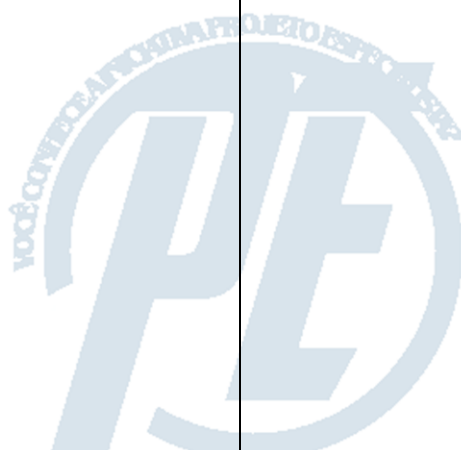
2. A
3. A
4. A
5. A
6. D
7. D
8. C
9. B
10. A
11. C
12. C
13. D
14. E
15. E
16. C
17. E
18. C
19. A

20. E

IF CLAUSES

- 1. B
- 2. A
- 3. D
- 4. A
- 5. E
- 6. B
- 7. B
- 8. D
- 9. D
- 10. C
- 11. E
- 12. B
- 13. C
- 14. D
- 15. B
- 16. C
- 17. D
- 18. C
- 19. A
- 20. B
- 21. C

- 16. A
- 17. A
- 18. C
- 19. B
- 20. A



ESTRUTURAS GRAMATICAI

- 1. A
- 2. D
- 3. B
- 4. C
- 5. B
- 6. B
- 7. A
- 8. B
- 9. B
- 10. D
- 11. D
- 12. A
- 13. A
- 14. C
- 15. C

MATEMÁTICA | NÚMEROS COMPLEXOS

1. O inverso do número complexo $z = -2i$ é $z' =$
 - a) $\frac{i}{2}$
 - b) $\frac{1}{2}$
 - c) -2
 - d) $2i$

2. O módulo do número complexo $z = -1 + 3i$ é
 - a) 1
 - b) 2
 - c) $\sqrt{5}$
 - d) $\sqrt{10}$

3. Se i é a unidade imaginária, pode-se afirmar que i^7 é igual a
 - a) i
 - b) i^2
 - c) i^3
 - d) i^4

4. Se $z = 3 + 2i$ é um número complexo, então z^2 é igual a
 - a) $5 + 12i$
 - b) $9 + 12i$
 - c) $13 + 4i$
 - d) $9 + 4i$

5. O número complexo $z = (a-4) + (b-5)i$ será um número imaginário puro se
 - a) $a = 4$ e $b = 5$
 - b) $a = 4$ e $b \neq 5$
 - c) $a \neq 4$ e $b = 5$
 - d) $a \neq 4$ e $b \neq 5$

6. Considere $z_1 = (2+x) + (x^2-1)i$ e $z_2 = (m-1) + (m^2-9)i$. Se z_1 é um número imaginário puro e z_2 é um número real, é correto afirmar que $x + m$ pode ser igual a
 - a) 1
 - b) 2
 - c) 3
 - d) 4

7. Seja z' o conjugado do número complexo $z = 1-3i$. O valor de $2z + z'$ é
 - a) $3 - 3i$
 - b) $1 - 3i$
 - c) $3 + i$
 - d) $1 + i$

8. Seja o número complexo $z = 1 + i$. Se z' é o conjugado de z , então o produto $|z| \cdot |z'|$ é igual a
 - a) 1
 - b) 2
 - c) $\sqrt{3}$
 - d) $2\sqrt{3}$

9. Seja z' o conjugado de um número complexo z . Sabendo que $z = a + bi$ e que $2z + z' = 9 + 2i$, o valor de $a + b$ é
 - a) 5
 - b) 4
 - c) 3
 - d) 2

10. O valor de $i^{11} - i^{21} - i^{38}$ é
 - a) $1 - 2i$
 - b) $2 - i$
 - c) -2
 - d) 1

11. Multiplicando-se o número complexo $2-3i$ pelo seu conjugado, obtém-se
 - a) 0
 - b) -1
 - c) 11
 - d) 13

12. Seja $z = \sqrt{3}(\cos 20^\circ + i \cdot \text{sen} 20^\circ)$ um número complexo na forma trigonométrica. Assim, z^2 é igual a
 - a) $3(\cos 20^\circ + i \cdot \text{sen} 20^\circ)$
 - b) $3(\cos 40^\circ + i \cdot \text{sen} 40^\circ)$
 - c) $2\sqrt{3}(\cos 20^\circ + i \cdot \text{sen} 20^\circ)$

d) $2\sqrt{3}(\cos 40^\circ + i \cdot \sin 40^\circ)$

13. O número complexo i^{102} , onde i representa a unidade imaginária,

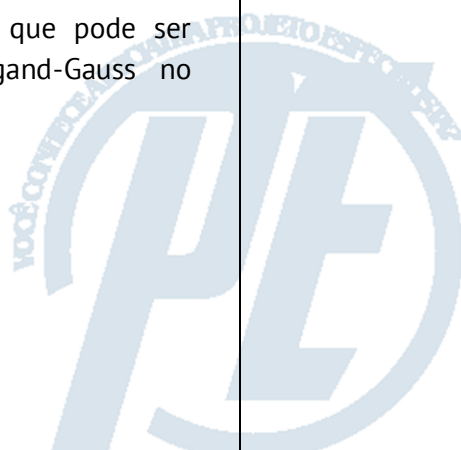
- a) é positivo
- b) é imaginário puro
- c) é real
- d) está na forma trigonométrica

14. A parte real do número complexo $\frac{1}{(2i)^2}$ é:

- a) $-\frac{1}{4}$
- b) -2
- c) 0
- d) $\frac{1}{4}$

15. Se i é a unidade imaginária, então $2i^3 + 3i^2 + 3i + 2$ é um número complexo que pode ser representado no plano de Argand-Gauss no _____ quadrante.

- a) primeiro
- b) segundo
- c) terceiro
- d) quarto



MATEMÁTICA | PROBABILIDADE

1. No lançamento simultâneo de dois dados perfeitos, a probabilidade de obter soma diferente de 11 é, aproximadamente,
 - a) 5,5%
 - b) 94,4%
 - c) 83,4%
 - d) 16,6%
2. Retirando aleatoriamente um elemento do conjunto $A = \{1, 2, 3, 4, \dots, 100\}$, a probabilidade de ele ser múltiplo de 5 é
 - a) $\frac{2}{5}$
 - b) $\frac{1}{5}$
 - c) $\frac{1}{10}$
 - d) $\frac{3}{10}$
3. Jogando-se um dado comum de seis faces e não viciado, a probabilidade de ocorrer um número primo e maior que 4 é de:
 - a) $\frac{1}{3}$
 - b) $\frac{1}{2}$
 - c) $\frac{1}{6}$
 - d) $\frac{2}{3}$
4. Dois dados são lançados conjuntamente. A probabilidade de a soma dos números das faces superiores ser 10 ou maior que 10 é
 - a) $\frac{5}{36}$
 - b) $\frac{1}{12}$
 - c) $\frac{1}{6}$
 - d) $\frac{1}{3}$
5. Dentre as 7 notas musicais, dois músicos escolherão, individualmente, uma nota. A probabilidade de que eles escolham notas iguais é
 - a) $\frac{1}{7}$
6. Em um lote com 250 peças, foi constatado que existem exatamente seis defeituosas. Retirando-se, ao acaso, uma peça desse lote, a probabilidade de que ela seja perfeita é de ____%.
 - b) $\frac{2}{7}$
 - c) $\frac{1}{49}$
 - d) $\frac{2}{49}$
7. Uma bomba está prestes a explodir e um militar tentará desativá-la cortando um de seus fios de cada vez. Ela possui 10 (dez) fios, dos quais 1 (um) a desativa, 7 (sete) causam a explosão e os outros 2 (dois) não causam efeito algum. A probabilidade do militar ter uma segunda chance para desativar a bomba é de ____%.
 - a) 82,3
 - b) 85,5
 - c) 97,6
 - d) 98,2
8. Para participar de um sorteio, um grupo de 152 pessoas respondeu à pergunta: "Você é fumante?". Se 40 pessoas responderam "SIM", a probabilidade de a pessoa sorteada não ser fumante é
 - a) 5
 - b) 10
 - c) 15
 - d) 20
9. Com os algarismos 2, 3, 4, 5 e 6 são formados números de três algarismos distintos. Um deles é
 - a) $\frac{11}{16}$
 - b) $\frac{17}{18}$
 - c) $\frac{15}{17}$
 - d) $\frac{14}{19}$

escolhido ao acaso. A probabilidade de ele ser divisível por 5 é

- a) $\frac{3}{5}$
- b) $\frac{2}{3}$
- c) $\frac{1}{5}$
- d) $\frac{1}{3}$

10. Uma urna contém bolas verdes e azuis. Sabe-se que a probabilidade de se retirar uma bola azul é de $\frac{6}{11}$. A probabilidade de ser retirada, em uma única tentativa, uma bola verde é de

- a) $\frac{1}{11}$
- b) $\frac{2}{11}$
- c) $\frac{4}{11}$
- d) $\frac{5}{11}$

11. Em um lançamento simultâneo de dois dados, sabe-se que ocorreram somente números diferentes de 1 e 4. A probabilidade de o produto formado por esses dois números ser par é

- a) $\frac{1}{2}$
- b) $\frac{3}{4}$
- c) $\frac{3}{5}$
- d) $\frac{7}{12}$

12. Um casal planeja ter 4 filhos; admitindo probabilidades iguais para ambos os sexos, a probabilidade de esse casal ter 2 meninos e 2 meninas, em qualquer ordem, é:

- a) $\frac{3}{8}$
- b) $\frac{3}{4}$
- c) $\frac{1}{2}$
- d) $\frac{1}{16}$

13. Jogamos 5 moedas comuns ao mesmo tempo. Qual a probabilidade de que o resultado seja 4 caras e 1 coroa?

- a) $\frac{1}{6}$
- b) $\frac{5}{35}$

- c) $\frac{1}{4}$
- d) $\frac{1}{5}$

14. Seja $A = \{k_1, k_2, k_3, k_4\}$ o espaço amostral de um experimento aleatório. Considere a seguinte distribuição de probabilidade: $P(k_1) = \frac{1}{8}$, $P(k_2) = \frac{1}{10}$, $P(k_3) = \frac{2}{5}$, $P(k_4) = x$. O valor de x é

- a) 36,5%
- b) 37%
- c) 37,25%
- d) 37,5%

15. Na 8ª A de uma escola há 18 meninos e 30 meninas, sendo que um terço dos meninos e três quintos das meninas têm olhos castanhos.

Escolhendo ao acaso um aluno, a probabilidade de ser menina ou ter olhos castanhos é

- a) 72,5%
- b) 75%
- c) 77,5%
- d) 80%

16. Cinco casais (marido e mulher) estão juntos em um restaurante. Escolhendo 2 pessoas ao acaso, a probabilidade de termos um marido e sua mulher é

- a) $\frac{1}{9}$
- b) $\frac{1}{10}$
- c) $\frac{1}{11}$
- d) $\frac{1}{12}$

17. Uma urna contém 3 bolas verdes e 4 amarelas.

Ao retirar, sem reposição, duas bolas, a probabilidade de elas serem amarelas é

- a) $\frac{2}{7}$
- b) $\frac{3}{7}$
- c) $\frac{4}{7}$
- d) $\frac{6}{7}$

18. Um aluno da EsSA tem uma habilidade muito boa nas provas de tiro com pistola, possuindo um índice de acerto no alvo de quatro em cada cinco

tiros. Se ele atirou duas vezes, a probabilidade de que ele tenha errado os dois tiros é:

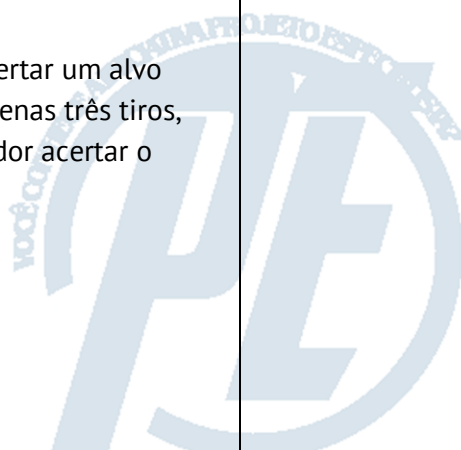
- a) $\frac{8}{25}$
- b) $\frac{1}{5}$
- c) $\frac{2}{5}$
- d) $\frac{1}{25}$

19. A probabilidade de um jogador de futebol marcar o gol ao cobrar um pênalti, é de 80%. Se esse jogador cobrar dois pênaltis consecutivos, a probabilidade de ele fazer o gol, em ambas as cobranças, é igual a:

- a) 16%
- b) 20%
- c) 32%
- d) 64%

20. A probabilidade de um atirador acertar um alvo em um único tiro é de 0,1. Com apenas três tiros, qual a probabilidade de esse atirador acertar o alvo no máximo duas vezes?

- a) 0,09
- b) 0,027
- c) 0,271
- d) 0,999



MATEMÁTICA | POLINÔMIOS E EQUAÇÕES POLINOMIAIS

1. O resto da divisão de $4x^3 + 2x^2 + x - 1$ por $x^2 - 3$ é igual a
- $13x + 5$
 - $11x - 3$
 - $2x + 5$
 - $6x - 3$
2. O grau do polinômio $(4x - 1)(x^2 - x - 3)(x + 1)$ é
- 6
 - 5
 - 3
 - 4
3. Uma equação polinomial do 3º grau que admite as raízes $-1, -\frac{1}{2}$ e 2 é:
- $x^3 - 2x^2 - 5x - 2 = 0$
 - $2x^3 - x^2 - 5x + 2 = 0$
 - $2x^3 - x^2 + 5x - 2 = 0$
 - $2x^3 - x^2 - 5x - 2 = 0$
4. Da equação $x^3 + 11x^2 + kx + 36 = 0$, sabe-se que o produto de duas de suas raízes é 18. Assim, o valor de k é
- 6
 - 8
 - 18
 - 36
5. Sejam os polinômios $A(x) = x^3 + 2x^2 - x - 4$, $B(x) = ax^3 - bx^2 - 4x + 1$ e $P(x) = A(x) - B(x)$. Para que $P(x)$ seja de grau 2, é necessário que
- $a \neq -1$ e $b = -2$
 - $a = 1$ e $b = -2$
 - $a = 1$ e $b \neq -2$
 - $a \neq 1$ e $b \neq 2$
6. Ao dividir $3x^3 + 8x^2 + 3x + 4$ por $x^2 + 3x + 2$ obtém-se _____ como resto.
- 6
 - 5
 - 4
 - 3
7. Seja a equação polinomial $2x^3 + 4x^2 - 2x + 4 = 0$. Se S e P são, respectivamente, a soma e o produto de suas raízes, então
- $S = P$
 - $S = 2P$
 - $S = 2$ e $P = -4$
 - $S = -2$ e $P = 4$
8. A equação $(x^2 + 3)(x - 2)(x + 1) = 0$ tem _____ raízes reais.
- 3
 - 2
 - 1
 - 0
9. Seja r a maior raiz da equação $x(x + 2)(x - 1)^3 = 0$. Se m é a multiplicidade de r , então $r \cdot m$ é igual a
- 6
 - 5
 - 4
 - 3
10. Seja a equação polinomial $x^3 + bx^2 + cx + 18 = 0$. Se -2 e 3 são suas raízes, sendo que a raiz 3 tem multiplicidade 2, o valor de "b" é
- 8
 - 6
 - 3
 - 4
11. Seja $A = \{-2, -1, 1, 2\}$ o conjunto formado pelas raízes de um polinômio $P(x)$ do 4º grau. Se o coeficiente do termo de maior grau de $P(x)$ é 1, então o termo independente é
- 3
 - 4
 - 5

- d) 6
12. Uma equação polinomial de coeficientes reais admite como raízes os números $-2, 0, 2$ e $1 + i$. O menor grau que essa equação pode ter é
- 6
 - 5
 - 4
 - 3
13. Se o polinômio $P(x) = ax^3 - 3x^2 - bx - 3$ é divisível por $(x - 3)(x + 1)$, então o valor de $a + b$ é
- 10
 - 8
 - 7
 - 5
14. Seja $A = \{-2, -1, 1, 2\}$ o conjunto formado pelas raízes de um polinômio $P(x)$ do 4º grau. Se o coeficiente do termo de maior grau de $P(x)$ é 1, então o termo independente é
- 3
 - 4
 - 5
 - 6
15. Se a maior das raízes da equação $x^3 - 6x^2 + 11x - 6 = 0$ é igual à soma das outras duas, então seu valor é divisor de
- 10
 - 16
 - 18
 - 20
16. Seja a equação $x^3 - 5x^2 + 7x - 3 = 0$. Usando as relações de Girard, pode-se encontrar como soma das raízes o valor
- 12
 - 7
 - 5
 - 2
17. Se a maior das raízes da equação $x^3 - 6x^2 + 11x - 6 = 0$ é igual à soma das outras duas, então seu valor é divisor de
- 10
 - 16
 - 18
 - 20
18. Considere $P(x) = 2x^3 + bx^2 + cx$, tal que $P(1) = -2$ e $P(2) = 6$. Assim, os valores de b e c são, respectivamente,
- 1 e 2
 - 1 e -2
 - 1 e 3
 - 1 e -3
19. Dado o polinômio: $ax^3 + (2a + b)x^2 + cx + d - 4 = 0$, os valores de a e b para que ele seja um polinômio de 2º grau são
- $a = 0$ e $b = 0$
 - $a = 1$ e $b \neq 0$
 - $a = 0$ e $b \neq 0$
 - $a = -1$ e $b = 0$
20. Dada a equação $3x^3 + 2x^2 - x + 3 = 0$ e sabendo que a, b e c são raízes dessa equação, o valor do produto $a \cdot b \cdot c$ é
- 1
 - 1
 - $\frac{1}{3}$
 - $-\frac{1}{3}$
21. O conjunto solução da equação $x^3 - 2x^2 - 5x + 6 = 0$ é:
- $S = \{-3; -1; 2\}$
 - $S = \{-0,5; -3; 4\}$
 - $S = \{-3; 1; 2\}$
 - $S = \{-2; 1; 3\}$
22. Sendo o polinômio $P(x) = x^3 + 3x^2 + ax + b$ um cubo perfeito, então a diferença $a - b$ vale:
- 3
 - 2
 - 1
 - 0
23. Se x_1, x_2 e x_3 são as raízes da equação $x^3 - 2x^2 - 5x + 6 = 0$, calcule o valor de $x_1 + x_2 + x_3$.

GABARITO MATEMÁTICA

NÚMEROS COMPLEXOS

1. A
2. D
3. C
4. A
5. B
6. A
7. A
8. B
9. A
10. A
11. D
12. B
13. C
14. A
15. B

PROBABILIDADE

1. B
2. B
3. C
4. C
5. A
6. C
7. D
8. D
9. C
10. D
11. B
12. A
13. B
14. D
15. B
16. A
17. A

18. D
19. D
20. D

POLINÔMIOS E EQUAÇÕES POLINOMIAIS

1. A
2. D
3. D
4. D
5. C
6. A
7. A
8. B
9. D
10. D
11. B
12. B
13. A
14. B
15. C
16. C
17. C
18. D
19. C
20. B
21. D
22. B
23. $x_1 + x_2 + x_3 = 2$