

Departamento de Admissão à Universidade (DAU)

| Disciplina: | INGLÊS | Nº Questões: | 60 |
|-------------|-------------|---------------------------|----|
| Duração: | 120 minutos | Alternativas por questão: | 5 |
| Ano: | 2017 | ALEOZE DANS | |

INSTRUÇÕES

- 1. Preencha as suas respostas na FOLHA DE RESPOSTAS que lhe foi fornecida no início desta prova. Não será aceite qualquer outra folha adicional, incluindo este enunciado.
- 2. Na FOLHA DE RESPOSTAS, assinale a letra que corresponde à alternativa escolhida pintando completamente o interior do rectângulo por cima da letra. Por exemplo, pinte assim 🛧, se a resposta escolhida for A
- 3. A máquina de leitura óptica anula todas as questões com mais de uma resposta e/ou com borrões. Para evitar isto, preencha primeiro à lápis HB, e só depois, quando tiver certeza das respostas, à esferográfica.

Water and Plants

With a few exceptions, plants make their own food from water and air. In order to survive, they act like pipelines, taking water out of the soil, delivering it to cells for use, and allowing whatever is left over to disperse into the air. The water, which is absorbed through fine oot hairs underground, travels upwards through labyrinths of long microscopic tubes penetrating the stem and branches, and passes back to the atmosphere through tiny leaf pores called stomata. This latter process is called transpiration. A leaf with an area of 2.5 square centimetres may contain as many as 30,000 stomata, most of which are on the underside, and they release an astonishing amount of water. Although transpiration varies with conditions of temperature, humidity, light, wind and the moisture of the soil, it usually totals several hundred times the dry weight of the plant itself during a single growing season. During its lifetime, a crop of maize, for example, may release water sufficient to cover the entire field in which it has grown, to a depth of 28 cm. in one warm day, a single birch tree can dispose of 225 – 315 litres of water.

The mechanics of this remarkable capacious water-handling system are still not completely understood and the movement of water in certain plants – very tall trees, for example – poses one of the most intriguing puzzles of plant biology. What is known, however, testifies again to the distinctive characteristics of water. One of these characteristics is called osmosis.

Ground water enters the root hairs of a plant by a special kind of diffusion (osmosis) which is a fundamental process that goes on in nearly all living tissues. Through this process, water molecules are able to cross living membranes even though these membranes do not seem to admit water in the form of drops of liquid. This apparent paradox can be demonstrated with a piece of cellophane which is a synthetic membrane quite similar to natural ones. Cellophane is watertight in the sense that a drop of water placed on its surface will not drip though; a microscope reveals no pores. Yet, somehow, water crosses to enter the plant. This puzzling circumstance is resolved by a closer examination of the membrane. Pores do exist, but they are too small to be seen with an ordinary microscope. Like all substances. A membrane is composed of molecules, and the molecules, no matter how tightly they are packed together, have spaces between them. The spaces are large enough to accommodate water molecules but far too small to allow the penetration of water drops. Thus a drop may pass through the barrier, but only a few molecules at a time

Diffusion takes place because of the random movement of molecules. They bounce against one another and fly apart, tending always to spread from a region where they are closely packed together to regions of lesser concentration. This action is the same one that diffuses lissolved molecules through a liquid – and is the reason why a lump of sugar eventually sweetens a cup of tea or coffee whether the liquid is stirred or not.

The rate at which molecules slip through a plant's intermolecular structure depends on the size of both the molecules and the pores. Small molecules like those of water travel through the pores of living membranes at a fairly rapid rate. The larger molecules of soluble substances, like minerals, travel through much more slowly. This difference in the rate of progress across the membrane makes the membrane a kind of sieve, and this sieving action can build up a substantial pressure. The reason is that there are relatively more water molecules outside the plant than inside, where minerals are present in the liquid. As indicated above water molecules move to regions where their concentration is less and hence 'osmotic' pressure builds up.

How is water taken out of the soil by a plant? A. The plant employs a pipeline for this purpose B. The roots of the plant absorb moisture from the soil C. The water is delivered to the plants by the cells D. The plant absorbs the wa'r from the ground E. The plants make their own moisture from the soil 2. The process called transpiration describes how: A. Water travels upwards through long microscopic tubes in the plant B. Water passes from the atmosphere into the stomata C. Water passes from the stem and branches into the atmosphere D. Air is released into the plant as a form of vapour E. The stomata release water into the atmosphere Which of the following options illustrates and explains the process known as diffusion? A. It describes how water penetrates nearly all living tissues B. The word explains an apparent contradiction

C. It is the process through which water runs the stem of a plant

| Exame | e de admissão de Língua Inglesa - 2017 | | DAU | | | Página 2 de 4 | | |
|---|--|--|---------------------------|--|--|-------------------------|--|--|
| | D. It is a fundamental pro | ocess that goes on in nea | arly all living tissues | | | | | |
| | E. It explains that living | | | | | | | |
| 1. | What is important to remem | | | e?obosbs9 oi | | | | |
| | A. They cannot be seen v | | cope | | | | | |
| | B. They have unique chaC. They may be tightly p | | | | | | | |
| | D. Between the molecule | es there are spaces which | h a liquid will penetrate | e | | | | |
| | E. Drops of water cannot | | | diamental and the second second | | Carrier of the Advances | | |
| ; | In "allowing whatever is left | | | whatever" stands for: | Light | quael 6 | | |
| | A. Remaining air | | | | | | | |
| | B. Anything that is left | | | The same of the sa | | | | |
| | C. Soil | | | | | | | |
| and the same | D. Water | | | | | | | |
| | E. Cell | | | a ton of the plants | | | | |
| | A. After going straight u | | erground, it reaches th | A. T | | | | |
| | B. After following very | | long the stem | | | | | |
| armi | C. After passing large tu | | error erro errei e el | | | | | |
| | D. Using the underside of | | | | | | | |
| | E. After an astonishing a | | by the leaves | and the sums and our | that are an investment | | | |
| | In "it usually totals several h | undred times" in lin | e 8 (paragraph 1), the | expression "it" refer | s to: | | | |
| 1 | A. Maize crop | | | | | | | |
| 444 | B. Soil | | | | | | | |
| | C. moisture | | | | | | | |
| , the | D. Humidity E. Transpiration | | | | | lob libe | | |
| 100 | E. Hanspiration | | | | | Had to (| | |
| UK. | According to line 11 (paragr | aph 2), "a capacious w | ater-handling system' | would be a system, v | vhich: | a parent | | |
| HITCH | A. Disperses water to all | | | | | | | |
| | B. Is able to handle aver | | | e varies with condition | | | | |
| | C. Can store quite large | | | | | | | |
| | D. Controls the moveme | | ants | | | | | |
| E LLD VI | E. Has a minimal capaci | | nuzzline sinovensta | a" hacangar | Marco eta la estado | MAIL OUT L. T | | |
| 1221 | In line 20 (paragraph 3) the A. The fact that a plants | | | because. | | | | |
| | | | | | | | | |
| | B. The fact that ordinary microscopes are not able to reveal poresC. The fact that water enters the plant under the circumstances described | | | | | | | |
| | D. The fact that water ha | as always been a puzzlin | g issue in the world | | | | | |
| de l'inne | E. The fact that plant bid | ology is puzzling and int | riguing | amint to others as man | a principle grassia stream | ON ALTRAC | | |
| 0 | When sugar eventually swee | THE REPORT OF THE PARTY OF THE | fee whether the liquid | l is stirred or not, it is | because: | | | |
| | A. There is a lump in the | sugar | | ribrane. Porce do exist | | | | |
| | B. Sugar is sweet C. Its dissolving molecu | les are diffused | | | | | | |
| | D. Its molecules are con | | | | | | | |
| | E. It changes from solid | | on on | few molecules at a the | the barrier, but only o | dancint | | |
| | ay Sunasan Sando La para rechan | Toma | toes – the perfect frui | t voca income or 10 to | the case of the case of | ULCU TO A | | |
| t is | difficult to imagine a world w | ithout tomatoes. High i | n the Andes mountain | s of modern-day Peru, | the local inhabitants | have by | | |
| culti | ivating and eating tomatoes sinc | e prehistoric (11) | but the food has only | become (12)in t | he rest of the world (| 13) | | |
| | ently. These days, the bright red | | portant role in the cool | | and is a key ingredie | ent in many | | |
| - C - C - C - C - C - C - C - C - C - C | es of fast food, (15) both to | aste and colour to dishes hade family of plants, m | eny members of which | be rather ordinary. | they were first (18) | into | | |
| | tomato (17) to the nightsl th America, therefore, tomatoes | were viewed with (19) | and people tende | d to use them as table | decorations (20) | than as | | |
| food | d. In Europe, the tomato was firs | at grown in Italy in 1555 | although it wasn't (21 |) with pasta unti | I much later. The firs | | | |
| om | ato ketchup dates from 1727 and | in the 1800s, tomatoes | began to be used more | in sauces a | nd soups. These days | , as well as | | |
| tasti | ing good, tomatoes are (23) | to contain substances | which are good for our | health. Nutritionists (2 | 24) out, however | | | |
| man | y processed tomato products als | so contain additives such | n as salt and sugar which | ch can (25) the be | eneficial effects of the | fruit. | | |
| | | A CONTRACTOR OF THE PARTY OF TH | -10 :1 | CONTRACTOR OF THE PROPERTY OF | OIL TO LOUIS AND | | | |
| 11 | | B. ages | C. periods | D. times | E. dates | | | |
| 12 | | B. total | C. favourite | D. preferred | E. general | | | |
| 13 | | B. relatively | C. entirely | D. apparently | E. eventually | 1 5 | | |
| 14 | A. forms | B. meets | C. does | D. enjoys | E. plays | | | |
| 15 | | B. putting | C. giving | D. providing | E. accumulating | | | |
| 16 | | B. otherwise | C. instead | D. meanwhile | E. therefore | | | |
| 17 | | B. possesses | C. fits | D. serves | E. belongs | | | |
| | | B. arrived | C. grown | D. appeared | E. presented | 1 8 | | |
| 18 | | | | | | - | | |
| 19 | A. doubt | B. respect | C. threat | D. suspicion | E. danger | | | |

| 20 | A. importantly | B. except | C. better | D. apart | E. rather | O STORAGE |
|----|----------------|------------|---------------|-----------|----------------|-----------|
| 21 | A. derivative | B. joined | C. combined | D. added | E. accompanied | |
| 22 | A. greatly | B. broadly | C. nationally | D. wholly | E. widely | |
| 23 | A. guessed | B. aware | C. realised | D. known | E. accepted | |
| 24 | A. call | B. point | C. prove | D. mark | E. show | |
| 25 | A. refuse | B. deny | C. shorten | D. reduce | E. lower | |

Promoting hygiene in our communities

Hygiene plays a very important role in the promotion of health, well-being and comfort. When it comes to health, staying hygienic is vital especially because most new diseases in our world nowadays are associated with lack of hygiene. Some of those diseases include bird flu and the swine flu. In Mozambique, a killer disease that is associated with hygiene is cholera. Therefore, it is important to inculcate in our population, especially in the children the habit of hygiene. Hygiene is not only about our bodies. It is also about the surroundings in our communities.

Here are some tips on hygiene:

1. Bodily hygiene

It is recommended that you always brush the teeth twice a day. While brushing your teeth will avoid that they get damaged, it is said that dental problems can cause serious conditions such as high blood pressure or heart attack. We must always take a bath once or more every day. Taking bath often is very important, especially in the city, where humidity and pollution will attract bacteria to our body. Another hygienic move has to do with always covering the mouth when coughing. You don't want to pass germs on to others. Changing clothes as often as possible may prevent very serious skin disorders. A final hygienic tip relating to our body concerns our genital areas. We have to keep these areas extremely clean. If we don't do that, we are prone to infections and bacterial attacks. And then, there are our hands. Let's wash our hands as often as possible. Many places that we touch are not clean.

2. Hygiene in the environment

The environment where we live in can be a source of diseases caused by bacteria and viruses. So, here are some tips to keep our invironment safe. One of the first things that we must all do is dispose of waste properly. If waste material is inappropriately disposed of, it can cause an outbreak of deadly diseases. Cholera is one of those diseases, which can be caused by improper disposal of garbage. Do not keep swamps near residence areas. They may be mosquito breeding locations. One type of mosquitoes, the anopheles, causes malaria. So, this is what we should always do: keep the home clean; do not throw garbage around residential areas; use garbage cans (in cities) or bury garbage (rural areas. Do not incinerate it in the open. You will pollute the environment); never spit or urinate in public places. Such actions cause the entire surrounding area to stink and breed bacteria and viruses that are dangerous to our health.

| 26 | The state of being in a satisf | actory condition of exis | stence (paragraph 1): | BIRLOO SA | Wolfing A. |
|----|--|---|--------------------------------------|-----------------|---------------------|
| | A. hygiene | B. health | C. well-being | D. comfort | E. promotion |
| 27 | Something which is absolute | ely necessary or essentia | al (paragraph 1): | niboold .Al | andsows A. sweating |
| | A. hygiene | B. health | C. disease | D. comfort | E. vital |
| 28 | A. our world | ives (paragraph 1): B. our communities | C. nowadays | D. comfort | E. vital |
| 29 | To teach persistently someon | ne an attitude or idea (¡ B. include | paragraph 1): C. habit | D. inculcate | E. promotion |
| 30 | Of the kind that or like (par | agraph 2): B. such as | C. another | D. as often as | E. often |
| 31 | Heat usually causes it (parag | | C. dental problems | D. cholera | E. bacteria |
| 32 | Bring closer (paragraph 2): A. brush | B. pass | C. attract | D. attack | E. touch |
| 33 | Practice (paragraph 2): A. move | B. bath | C. pass | D. disorders | E. wash hands |
| 34 | Diseases (paragraph 2): A. coughing | B. damaged | C. disorders | D. serious skin | E. infections |
| 35 | | | See next question | | |
| 36 | A recommendation or sugge A. very important | stion (paragraph 2): B. changing | C. hygienic | D. brushing | E. tip |
| 37 | Likely or liable to suffer from A. get damaged | m (paragraph 2): B. has to do | C. prone to | D. heart attack | E. prevent |
| 38 | The cause or beginning of so A. environment | B. outbreak | C. source | D. swamps | E. diseases |
| 39 | To get rid something (parag A. garbage | B. breed | C. outbreak | D. keep | E. dispose of |
| 40 | Sudden increase in the rate of A. outbreak | B. garbage | aragraph 3): C. breeding | D. swamps | E. cholera |
| 41 | An area flooded with water A. mosquitoes | B. swamps | C. cholera | D. malaria | E. surrounding |
| 42 | The act of reproducing (para A. source | B. outbreak | C. breeding | D. disposed of | E. incinerate |
| 43 | To have a very strong and use A. outbreak | npleasant smell or odor B. incinerate | ur (paragraph 3): C. garbage cans | D. stink | E. urinate |

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| 40 | Sudden increase in the rate of | a harmful activity (par | agraph 3): | | TENERAL WAS ARREST | | |
| | | B. garbage | C. breeding | D. swamps | E. cholera | | |
| 41 | An area flooded with water (paragraph 3): | | | | | | |
| | A. mosquitoes | B. swamps | C. cholera | D. malaria | E. surrounding | | |
| 42 | The act of reproducing (parag | raph 3): | | | | | |
| | | B. outbreak | C. breeding | D. disposed of | E. incinerate | | |
| 43 | To have a very strong and unp | leasant smell or odour | (paragraph 3): | | | | |
| | | B. incinerate | C. garbage cans | D. stink | E. urinate | | |

| 4 | Destroy by or consume by A. dispose of | fire (paragraph 3): B. tips | C. outbreak | D. throw | E. incinerate |
|----|--|---|--|---------------------------|------------------|
| 5 | whole (paragraph 3): A. deadly | B. properly | C. safe | D. entire | E. viruses |
| 6 | Let's stay at home today. A. very | B. so | C. too | D. too much | E. such |
| 7 | If Iyou I would | have stopped to give your B. had been see | ou a lift, but unfortunat C. had to see | ely I didn't: D. had seen | E. see |
| 8 | I have neverabroad A. been | since I was born: B. gone | C. went | D. come | E. being |
| 9 | If I had known you were i | II, I visited you B. had | C. would have | D. should have | E. can have |
| 50 | The doctor asked me wha A. I ate | t in the mornin B. do I eat | gs: C. I ate | D. I have eaten | E. I will eat |
| 51 | Youto study more, A. must | B. can | C. will | D. ought | E. would |
| 52 | The exam was tha A. such easy | B. so much easy | C. too easy | D. much easy | E. so easy |
| 53 | When I got home yesterds A. took | y, I found that someone B. has taken | C. had taken | D. have taken | E. would take |
| 54 | On Saturday night I like . A. having | B. had | h my friends: C. have | D. has had | E. bee having |
| 55 | When you arrive in this c | ountry, you have to show | | D. customs | E. airport |
| 56 | Many people areof A. upset | dogs as they can be dang B. afraid | C. worried | D. fear | E. scared |
| 57 | Thepicture in the ne A. front page | B. article | C. headline | Belgium: D. small page | E. story |
| 58 | I have been doing some A. investigation | | cs: C. findings | D. research | E. study |
| 59 | My brother's daughter is A. nephiew | my: B. cousin | C. niece | D. daughter -in-low | E. step-daughter |
| 60 | When you get very hot, you | ou regulate your body te | mperature by: | D. breathing | E. sneezing |

THE END!

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