

Direcção Pedagógica

Departamento de Admissão à Universidade (DAU)

Disciplina:	INGLÊS	N° Questões:	60
Duração:	120 minutos	Alternativas por questão:	5
Ano:	2017		

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

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	D. It is a fundamental p	rocess that goes on in nea	rly all living tissues	C				
4.		g membranes do not seem						
٠ ١	What is important to remen			e?				
	B. They have unique ch	with an ordinary microsc	ope					
	C. They may be tightly							
		les, there are spaces whic	h a liquid will penetrate	e				
		ot penetrate the spaces be						
1	In "allowing whatever is lef			whatever" stands for:		more of		
	A. Remaining air							
	B. Anything that is left							
	C. Soil							
	D. Water E. Cell							
	According to the text, when	water is absorbed unde	roround, it reaches th	e top of the plant:				
1	A. After going straight		rground, it reaches to	All Colon and and and and and and and and and an				
		intricate and tiny paths a	long the stem					
5 3	C. After passing large t		and the male of all					
	D. Using the underside							
		amount of it is released b		Carlotte Miles	The Land of the Land			
]	In "it usually totals several	hundred times" in lin	e 8 (paragraph 1), the	expression "it" refer	s to:			
	A. Maize crop							
	B. Soil C. moisture							
Bor	D. Humidity							
4	E. Transpiration					1900 (11,50)		
	will get "Emphases over more or	If something actual signs	BATTER ROOM TO SERVICE	t upverda Unday), lat	man division and the m			
	According to line 11 (parag	raph 2), "a capacious wa	ater-handling system'	' would be a system, v	vhich:	WATER THE		
	A. Disperses water to a			water with candidon				
	B. Is able to handle ave			of trade self to project				
	C. Can store quite large		to which is has course					
	E. Has a minimal capacitation	ent of water in certain pla	uits		do more esta to be			
	In line 20 (paragraph 3) the		puzzling circumstance	e" because:	william edit pu somme	NAME OF THE PERSON OF THE PERS		
ren i		s have smooth and unbrol						
		ry microscopes are not ab						
200	C. The fact that water enters the plant under the circumstances described							
	D. The fact that water has always been a puzzling issue in the world							
	E. The fact that plant b	piology is puzzling and int	riguing			Continue		
)	When sugar eventually swe		fee whether the liquid	is stirred or not, it is	because:			
712	A. There is a lump in the	ne sugar		ubrand Form do ed a				
1111	B. Sugar is sweet C. Its dissolving molec	ules are diffused						
,000	D. Its molecules are co							
	E. It changes from soli		50	i ev moleculus at a tin	the harrior, but only	rigivouni		
	Strong Sagin Co. value guard	Toma	toes - the perfect fru	Court salvorard bett so	ALL PARTIES CARE IN			
is d	difficult to imagine a world	without tomatoes. High i	n the Andes mountains	s of modern-day Peru,	the local inhabitants	s have by		
ltiv	vating and eating tomatoes sin	ce prehistoric (11)	but the food has only	become (12) in t	he rest of the world (13)		
cent	tly. These days, the bright re	ed fruit (14) an imp	portant role in the cool	king of many cultures	and is a key ingredie	ent in man		
	of fast food, (15) both	shade family of plants, m	that (16) would	be rather ordinary.	hey were first (18)	into		
ne to	omato (17) to the night America, therefore, tomatoe	snade family of plants, in	and people tende	d to use them as table	decorations (20)	than as		
ord	In Europe, the tomato was fi	rst grown in Italy in 1555	although it wasn't (21) with pasta unti	l much later. The firs			
mat	to ketchup dates from 1727 ar	nd in the 1800s, tomatoes	began to be used more	(22) in sauces a	nd soups. These days	, as well as		
stin	g good, tomatoes are (23)	to contain substances	which are good for our	health. Nutritionists (2	24) out, however			
any	processed tomato products a	lso contain additives such	as salt and sugar which	th can (25) the be	eneficial effects of the	e fruit.		
	The state of the state of	15	10	15.	T 7	7		
1	A. hours	B. ages	C. periods	D. times	E. dates			
2	A. popular	B. total	C. favourite	D. preferred	E. general			
3	A. effectively	B. relatively	C. entirely	D. apparently	E. eventually	2		
4	A. forms	B. meets	C. does	D. enjoys	E. plays			
5	A. mixing	B. putting	C. giving	D. providing	E. accumulating			
16	A. nonetheless	B. otherwise	C. instead	D. meanwhile	E. therefore			
100	A. admits	E STATE OF THE STA	C. fits	D. serves	E. belongs			
17		B. possesses		A THE PERSON NAMED IN COLUMN TWO	The state of the s	1		
18	A. imported	B. arrived	C. grown	D. appeared	E. presented	-		
19	A. doubt	B. respect	C. threat	D. suspicion	E. danger			

20	A. importantly	B. except	C. better	D. apart	E. rather	
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):	MEDICAL AND	Women's an			
	A. hygiene	B. health	C. well-being	D. comfort	E. promotion			
27	Something which is absolute	Something which is absolutely necessary or essential (paragraph 1):						
	A. hygiene	B. health	C. disease	D. comfort	E. vital			
28	In the current times of our l	lives (paragraph 1): B. our communities	C. nowadays	D. comfort	E. vital			
29	To teach persistently someo	ne an attitude or idea (¡ B. include		D. inculcate	E. promotion			
30	Of the kind that or like (par A. while		C. another	D. as often as	E. often			
31	Heat usually causes it (para A. serious conditions		C. dental problems	D. cholera	E. bacteria			
32	Bring closer (paragraph 2): A. brush	The state of the s	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	B. changing	C. hygienic	D. brushing	E. tip			
37	Likely or liable to suffer fro 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 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 (par A. source	agraph 3): B. outbreak	C. breeding	D. disposed of	E. incinerate			
43	To have a very strong and u A. outbreak	npleasant smell or odor B. incinerate	ur (paragraph 3): C. garbage cans	D. stink	E. urinate			

20	A. importantly	B. except	C. better	D. apart	E. rather	
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		3. health	C. well-being	D. comfort	E. promotion		
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		3. health	C. disease	D. comfort	E. vital		
28	A. our world I	s (paragraph 1): 3. our communities	C. nowadays	D. comfort	E. vital		
29	To teach persistently someone A. role	an attitude or idea (pa 3. include	ragraph 1): C. habit	D. inculcate	E. promotion		
30	Of the kind that or like (parag						
		3. such as	C. another	D. as often as	E. often		
31		aph 2): 3. humidity	C. dental problems	D. cholera	E. bacteria		
32	Bring closer (paragraph 2): A. brush H	3. pass	C. attract	D. attack	E. touch		
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35			See next question				
36	A recommendation or suggesti A. very important	on (paragraph 2): 3. changing	C. hygienic	D. brushing	E, tip		
37	Likely or liable to suffer from A. get damaged	(paragraph 2): 3. has to do	C. prone to	D. heart attack	E. prevent		
38	The cause or beginning of som A. environment	ething (paragraph 3): 3. outbreak	C. source	D. swamps	E. diseases		
39	To get rid something (paragraph A. garbage	ph 3): 3. breed	C. outbreak	D. keep	E. dispose of		
40	Sudden increase in the rate of	a harmful activity (par B. garbage	ragraph 3): C. breeding	D. swamps	E. cholera		
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44	Destroy by or consume by A. dispose of	fire (paragraph 3): B. tips	C. outbreak	D. throw	E. incinerate
45	whole (paragraph 3): A. deadly	B. properly	C. safe	D. entire	E. viruses
46	Let's stay at home today. I	B. so	C. too	D. too much	E. such
47	If Iyou I would A. saw	B. had been see	ou a lift, but unfortuna C. had to see	tely I didn't: D. had seen	E. see
48	I have neverabroad A. been	since I was born: B. gone	C. went	D. come	E. being
49	If I had known you were il A. would	l, I visited you B. had	u: C. would have	D. should have	E. can have
50	The doctor asked me what A. I ate	B. do I eat	C. I ate	D. I have eaten	E. I will eat
51	Youto study more, o	B. can	C. will	D. ought	E. would
52	The exam was that A. such easy	I finished it thirty min B. so much easy	C. too easy	D. much easy	E. so easy
53	When I got home yesterda 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 co	untry, you have to show B. immigration	w your luggage to the C. passport	D. customs	E. airport
56	Many people areof o	B. afraid	C. worried	D. fear	E. scared
57	Thepicture in the nev	vspaper today is about	the President's visit to C. headline	Belgium: D. small page	E. story
58	I have been doing some A. investigation	in Bantu Linguist	ics: C. findings	D. research	E. study
59	My brother's daughter is a A. nephiew	my: B. cousin	C. niece	D. daughter -in-low	E. step-daughter
60	When you get very hot, you		emperature by: C. burning	D. breathing	E. sneezing

THE END!