



I OLIMPIADA JĘZYKA ANGIELSKIEGO Z ELEMENTAMI JĘZYKA TECHNICZNEGO LANGTECH

ETAP FINAŁOWY

9 listopada 2019

wypełnia uczeń

IMIĘ I NAZWISKO	
NAZWA SZKOŁY	

wypełnia nauczyciel

ZADANIE	T1	T2	Т3	T4	T5	T6	T7	Т8	Т9	T10	RAZEM
PUNKTY	5	5	10	5	10	10	15	10	15	15	100
ILOŚĆ											

Podpis sprawdzającego: _

Droga uczennico! Drogi uczniu!

Arkusz, który masz przed sobą, zawiera 10 zadań. Przeczytaj uważnie polecenia. Pamiętaj, żeby pisać czytelnie (długopisem lub piórem). Możesz pisać drukowanymi literami. Nie używaj korektora ani długopisu zmazywalnego. Odpowiedzi nanieś w miejsca do tego przeznaczone.

Pamiętaj, że brak wyboru odpowiedzi lub zaznaczenie większej liczby odpowiedzi będzie traktowane jako błędna odpowiedź.

Jeśli jeszcze nie wyłączyłeś/ wyłączyłaś telefonu komórkowego, zrób to teraz. Czas przeznaczony na rozwiązanie testu: 135 minut.

Życzymy Ci powodzenia,

GOOD LUCK!

Komitet Organizacyjny Olimpiady







/5p.

5.

/ 10 p

Task 1. Listening comprehension 1

Listen to the recording and mark the sentences below as true (T) or false (F) Write your answers in the box. You will hear the recording twice.

		T/F
1. The speaker starts the talk with two examples of helices found in nature.	1.	
2. The main advantage of a spiral staircase is its strength.	2.	
3. DNA contains the genetic information for most living things.	3.	
4. A mirror image of a helix can appear to change direction.	4.	
5. Helices are much more common in manufactured objects than in natural ones.	5.	

Task 2. Listening comprehension 2

Listen to the recording and choose the best answer. Write your answers (a/b/c) in the box. You will hear the recording twice.

1. Which fields of employment are women under-represented in,
according to the report:

a. science, engineering and tech

- b. science, law and accounting
- c. construction, tech and law

2. What percentage of companies raising money in Silicon Valley that Orange Labs SF looked at were led by women?

- a. 43%
- b. 4.3%
- c. 3%

3. Why does one of the women feel that female IT entrepreneurs often go unnoticed?

a. because they tend to be more modest about their achievements.

b. because they tend not to opt for venture fundraising

c. because they prefer to keep a low profile

Task 3. Reading comprehension

LIFE ON MARS

1.

recording?

A new study published in the journal *Science* shows definitive evidence of organic matter on the surface of Mars. The data was collected by NASA's nuclear-powered rover Curiosity. It confirms earlier findings that the Red Planet once contained carbon-based compounds. These compounds – also called organic molecules – are essential ingredients for life as scientists understand it. The organic molecules were found in Mars's Gale Crater, a large area that may have been a watery lake over three billion years ago. The rover encountered traces of the molecule in rocks extracted from the area. The rocks also contain sulfur, which scientists speculate helped preserve the organics even when the rocks were exposed to the harsh radiation on the surface of the planet.

B Scientists are quick to state that the presence of these organic molecules is not sufficient evidence for ancient life on Mars, as the molecules could have been formed by non-living processes. But it's still one of the most astonishing discoveries, which could lead to future revelations. Especially when one considers the other startling find that Curiosity uncovered around five years ago. The rover analyses the air around it periodically, and in 2014 it found the air contained another of the most basic organic molecules and a key ingredient of natural gas: methane. One of the characteristics of methane is that it only survives a few hundred years. This means that something, somewhere on Mars, is replenishing the supply. According to NASA, Mars emits thousands of tons of methane at a time. The level of methane

rises and falls at seasonal intervals in the year, almost as if the planet is breathing it.

4.

- **C** NASA suspects the methane comes from deep under the surface of the planet. The variations in temperature on the surface of Mars cause the molecule to flow upwards at higher or lower levels. For example, in the Martian winter the gas could get trapped in underground icy crystals. These crystals, called clathrates, melt in the summer and release the gas. However, the source of the methane is still a complete mystery.
- D The world of astrobiology considers both of these studies as historical milestones. According to this information, Mars is not a dead planet. On the contrary, it is quite active and may be changing and becoming more habitable. Of course, this means further research is necessary. Scientists say they need to send new equipment to Mars, equipment that can measure the air and soil with more precision. There are already missions underway. The European Space Agency's ExoMars ship lands in 2020 and will be able to drill into the ground on Mars to analyse what it finds. Additionally, NASA is sending another Mars Rover in the same year to collect samples of Martian soil and return them to Earth. The possibility of life on Mars has fascinated humans for generations. It has been the subject of endless science-fiction novels and films. Are we alone in the universe or have there been other life forms within our Solar System? If the current missions to the Red Planet continue, it looks as if we may discover the answer very soon.

4. What reasons does one of the speakers give for young girls being more comfortable with using technology?

a. they are more confident than older women

b. advice and help with applying for funding

2.

b. they are used to using computers as part of their everyday life

5. What initiatives for helping women who want to work in the

c. hosting free programing language workshops, and providing childcare

technology industry does one of the speakers mention in the

3.

a. she doesn't mention any initiatives for helping women

c. they have grown up in a less sexist environment

Centrum Językowe PŁ





a)	a) Read the text and mark the sentences below as T (true) or F (false). Write your answers in the box.		
1.	This is not the first study to suggest that life existed on Mars in the past.	1.	
2.	A scientific vehicle found very small elements of an organic molecule in water extracted from the planet.	2.	
3.	It is believed that this conclusively proves that there was once life on the planet.	3.	
4.	Mars can be said to have a winter and a summer.	4.	
5.	There are at least two more scientific expeditions heading to Mars.	5.	

b) Read the text and find the words that have the same meaning as the definitions 6-10. Write your answers in the box.

6.	a pale yellow substance that produces a strong unpleasant smell when it burns and is used in medicine and industry (par. A)	6.	
7.	extremely unusual and surprising (par. B)	7.	
8.	making something full again by replacing what has been used (par. B)	8.	
9.	to let somebody/something come out of a place where they have been kept or trapped (par. C)	9.	
10.	very important stages or events in the development of something (par. D)	10.	

Task 4. Working with words 1

Complete each of the sentences with an appropriate preposition. Write your answers in the box.

1.	1. It sometimes seems that people in the developed world are indifferent the plight of those in poorer ones.
2.	2. Volcanologists say the earth might be due another major volcanic eruption.
3.	3. Many artists strive perfection and thus end up frustrated.
4.	4. The party finally broke at 3 am.
5.	5. You can't stay at our place because we are having our living room done

Task 5. Working with words 2

Read the sentences and fill in the gaps with one of the words below. There are five extra words.

_ / 10 p.

_ / 5 p.

tranquildomesticwellprofferpuntersscenicdomesticatedseeminglyshredinformpristinejauntpencilledwardabreast

1.	1. This diagram illustrates how solar energy is used to provide hot water for use.
2.	 There isn't a of independent scientific evidence that these experimental programmes work.
3.	 Some scientists the view that predatory birds were a deterrent in the insect invasion.
4.	 The government's latest five-year plan has ambitiously in nearly €500 billion in infrastructure projects.
5.	 This scientific programme keeps you of what's going on in science and technology around the globe.
6.	6. In the planting season the countryside is not at all as it is buzzing with activity.
7.	7. How about a/an to Las Vegas this weekend? We haven't been there for ages.
8.	 As a result of the invention, Wildwings, an independent travel agency, have been taking deposits from eager for a place in the stars.
9.	 In the past, the prickly plant, nailed to the barn doors was used to off witches and evil.
10.	10. This car is incondition except for these distinctive scratches here in the hood.





_____ / 10 p.

Task 6. Language at work

Choose the best option: a, b or c. Write your answers in the box.

1.	1. It's been a long time sind	e I your brother Paul.			
1.	a) saw	b) have seen	c) have been seeing		
2.	2 . I'd rather you	television while I'm reading.			
Ζ.	a) aren't watching	b) didn't watch	c) not to watch		
3.	3. The escaped prisoner is	thought recaptured.			
5.	a) to have been	b) to has been	c) to have		
4.	4. Were the police	, I would have been in trouble.			
4.	a) found out	b) to find out	c) to have found out		
5.	5. No sooner had we come	to office the Stock Marke	et crashed.		
5.	a) than	b) when	c) then		
6.	6. They suggested that she				
0.	a) will apply	b) applies	c) apply		
7.	7. They admitted members of the gang.				
7.	a) to be	b) to being	c) be		
8.	8. 'Do you remember Uncle	e Danny?' 'Yes. He always	bring us presents.'		
0.	a) got used	b) would	c) was used		
9.	9. In spite of n	nuch progress, the student was promo	oted.		
9.	a) not having made	b) that he didn't make	c) having not made		
10.	10. Sally has got an appoint	tment this afternoon. She	her agent at five.		
10.	a) sees	b) will see	c) is to see		

Task 7. Word formation

_ / 15 p.

Read the sentences below. Use the word given in capitals at the end of each line to form a word that fits in the numbered space.

1.	Gloom among the workforce when the efficiency experts were brought in.	DEEP
2.	When the electricity company is, will the new owners continue investing in renewables?	PRIVATE
3.	We believe that the Internet is too on our privacy.	INTRUDE
4.	I was driving to work in my, which was fine until it started raining on the motorway.	CONVERT
5.	I'm sorry I didn't pick you up this morning. It was a terrible on my part.	SEE
6.	The detective was questioned because some of the steps he had taken were not in with the law.	COMPLY
7.	Jake acted He called everybody names then slammed the door and left the meeting	RESPECT
8.	, the company isn't willing to lose its share in the local market.	APPEAR
9.	We made the mistakes due to the of the measuring devices.	PRECISE
10.	Doctors say a glass of warm milk before bedtime can result in a more night's sleep.	REST
11.	Local officials were surprised at the scale of the against plans for a local casino.	CRY
12.	Can you think of one reason why I should give you your job back?	SOLE
13.	It's a hot day today, so take the of using sun cream and drinking plenty of water.	CAUTION
14.	This morning's explosion at the chemical plant resulted in one and four injuries.	FATAL
15.	I need more information. I'm rather with these problems.	ACQUAINT

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





/ 10 p.

Task 8. Transformations

For each sentence below write a new sentence as similar in meaning as possible. The words in capitals should be used in your sentences but must not be altered in any way. You must use between TWO and SIX words, including the word given.

1.	Let me know if you prefer me to write on the board rather than just speaking.	HAVE
	Let me know if you whether I write on the board	or just speak.
2.	He bought the book online in spite of the poor reviews it was given.	EVEN
2.	He bought the book onlineit	poor reviews.
3.	The meeting dragged on for hours and the managers argued fiercely.	ONLY
э.	Not for hours, but the managers also argued fiercely.	
4.	Creating an original piece of art requires a lot of work.	DEAL
	Ato create an original	piece of art.
5.	Picasso's peers weren't surprised by his success.	CAME
э.	The fact that Picasso succeeded	his peers.
6.	It seems as if we misunderstood what the aims of the course were.	BEEN
0.	There seems what the aims of the	course were.
7.	We've talked a lot about Peter's description of what happened that day and I'm sure he wasn't lying.	MUST
7.	We've talked a lot about Peter's description of what happened that day and he	-
	truth.	
	Paul made a common mistake and is now deep in credit card debt .	TRAP
8.	Paul of credit card	deht
	Like many students, Joe would find it very difficult to pay for everything he needs if his parents didn't	ENDS
9.	help him.	
	Like many students, Joe would have great the help	of his parents.
	'I promise I will never tell anyone about the missing files,' said Jenny.	WORD
10.		
	Jenny never tell anyone about the r	missing files.

Task 9. Technical vocabulary PART A.

____ / 15 p.

Complete the sentences with the correct technical words. The first letter of each word has already been given. The number of letters should be the same as the number of spaces provided for each word. Write your answers in the box.

- A straight line that goes from one side of a circle to the other side and through the centre, or the length of this line is called a d_____.
- 2. Width, depth and height are d_____.
- **3.** The lake reaches a maximum **d**____ of 292 meters.
- **4.** It is difficult to get precise and **a**_____ figures on population numbers.
- SI units are the standard units of m_____ used all over the world.
- The v_____ line on the graph represents the time taken, and the horizontal line represents the distance travelled.
- 7. The elevated concentration of CO_2 can be observed only within a short time $s_{__}$.
- 8. The e_____ walls of the castle are beginning to crumble and need renovation.

- 9. The towers are inclined, from four to ten feet out of p____.
- **10.** Parallel lines become **p**_____ when one line is rotated by 90°.
- 11. If we directly join any two corners (called "vertices") which are not already joined by an edge, we get a d_____.
- 12. A_____ angles share a vertex and a side but they don't overlap.
- **13.** If two things such as lines or roads **i**_____, they go across each other at a particular point.
- 14. The lake is 250km in c _____ so it will take you a lot of time to go around it.
- 15. The roof beams were 50 square centimetres in c_____.

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



Technical vocabulary PART B Task 10.

Choose the correct option: a, b, or c. Write your answers in the box.



__ / 15 p.

0	с	0. The swimming pool is 2 meters _	a) wide b) high c) deep					
1.		1. Is the drawing made scale?							
		a) on	b) to	c) by					
2.		2. The length of the truck is 13.6 meters.							
		a) full	b) total	c) overall					
3.		3. The maximum amount of energy an electrical grid can supply to users is called its							
		a) capacity	b) efficiency	c) consumption					
4.		4. The quality team in the	plant make sure that all procedures	meet the required standards.					
		a) control	b) assurance	c) inspection					
5.		5. A drawing that shows parts of a machine slightly separated by distance is called an view.							
		a) exploded	b) exposed	c) external					
6.		6. The position of the column was accurately by the site engineer.							
		a) measured out	b) marked up	c) set out					
7.		7. The bore of a pipe is its	•						
		a) inside diameter	b) outside diameter	c) external dimension					
8.		8. The fit means that a component of a machine which goes through another can move or turn freely.							
		a) expansion	b) clearance	c) interference					
9.		9. If the difference between two measurements is minimal, we say it's							
		a) negligent	b) rounded down	c) negligible					
10.		10. How fast can the car go? What is its speed?							
		a) top	b) best	c) greatest					
11.		11. Thisdrawing shows a simplified view of the air duct network in this building.							
		a) scheme	b) schematic	c) diagram					
12. 13. 14.			nce is automatically rejected by the						
		a) out of	b) without	c) beyond					
		13. The highest point of this bridge		a) tawar					
			b) extremity _ each other, so the distance betwee	c) tower					
		a) to	b) by	c) with					
15.		'	sunlight, transform it into electric po	,					
		a) directed	b) placed	c) exposed					
		4, 4							

THANK YOU