Část I – Test jazykové kompetence (70 bodů)

Správná řešení jsou vyznačena červeně.

The Intelligence of Ants

Ants are incredible creatures. Individually they are small and often defenceless, with a brain no larger than the tip of a pin. Yet together these fascinating insects living in colonies operate as a single superorganism, capable of building complex subterranean megacities, complete with ventilation systems, sewers and transportation highways. Some species will even cultivate their own food in specifically designed chambers.

In the 100 million years since they diversified, ants have built up a wealth of accomplishments. Aside from Antarctica and a few remote islands, **these insects have colonised every landmass on Earth**, and their collective biomass is estimated to rival that of the total biomass of the 7 billion humans alive today. On top of all this, some species are also proficient tool users and have beenobserved using sand grains or leaf fragments to collect and transport liquids back to their nests.

To investigate this behaviour, ______ (1) team of researchers presented ants with various potential tools, including twigs, pine needles and soil grains, as well as artificial items such as sponge and ______ (2) paper. When ______ (3) ants were offered ______ (4) liquids containing ______ (5) water and honey they began to experiment with the selection of tools at their disposal. Eventually, they started to display ______ (6) preference for specific tools – even ones not present in their natural environment: the ants were e.g. observed tearing a sponge into ______ (7) smaller pieces, presumably for better ease of ______ (8) handling.

What does this mean for science?

While **tool use in ants has been documented before**, this is the first time they have been observed selecting the most appropriate tool for a task. As the ants treated the honey and the water differently, this suggests that even without any prior experience with the materials, they are able to understand the properties of both the tool and the liquid they are transporting. In addition, the ants displayed a quick ability to learn which tools were most suitable. The researchers believe that ants evolved to use tools because they are not able to expand their stomachs, and they therefore require an alternative mechanism for transporting materials.

(Source: The Zoological)

TESTOVÉ ÚKOLY I – VI VYCHÁZEJÍ Z VÝŠE UVEDENÉHO TEXTU.

I. Pečlivě pročtěte výše uvedený text a rozhodněte, zda jsou následující tvrzení pravdivá (P) nebo nepravdivá (N). (3 body)

1 Ants are not very clever because of the size of their brain.	Ν
2 Ants can be found everywhere in the world.	Ν
3 Ants will use even materials they have not worked with before.	Ρ

II. Doplňte dle uvážení člen neurčitý (a/an), určitý (the) nebo nulový (0). Nevyplněné pole jeautomaticky považováno za nesprávnou odpověď.(8 bodů)

To investigate this behaviour, $_a_$ (1) team of researchers presented ants with various potential tools, including twigs, pine needles and soil grains, as well as artificial items such as sponge and $_0_$ (2) paper. When $_$ the/0_ (3) ants were offered $_0_$ (4) liquids containing $_0_$ (5) water and honey they began to experiment with the selection of tools at their disposal. Eventually, they started

to display $_a/0_$ (6) preference for specific tools – even ones not present in their natural environment: the ants were e.g. observed tearing a sponge into $_0_$ (7) smaller pieces, presumably for better ease of $_0_$ (8) handling.

III. Doplňte slova opačného významu – buď antonyma (např. good – bad), nebo opozita odvozená zápornými předponami nebo příponami (např. possible – impossible). Použijte vhodné výrazy z níže uvedené nabídky.
 (5 bodů)

1) defenceless – strong_____

- 2) complex simple_____
- 3) artificial natural_____
- 4) natural unnatural_____
- 5) suitable unsuitale_____

helpless – simple – natural – unsuitable – strong – fitting – home-made – unnatural – naturaless – defenceful – naturally – incomplex – real – clear – incorrect

IV. Přeformulujte větu tak, abyste při zachování významu mohli užít trpný rod. Je-li třeba, využijte
vhodných výrazů z textu (věta je zvýrazněna tučným písmem).(2 body)These insects have colonised every landmass on Earth.Every landmass on Earth has been colonised by these insects.

V. Přeformulujte větu tak, abyste při zachování významu mohli užít činný rod. Je-li třeba, využijte vhodných výrazů z textu (věta je zvýrazněna tučným písmem). (2 body)
 Tool use in ants has been documented before.
 Scientists / Researchers / etc. have documented tool use in ants before.

VI. Přeložte následující věty do češtiny; berte přitom v úvahu jejich kontext (věty jsou podtrženy v úvodním textu). (4 body)

Some species will even cultivate their own food in specifically designed chambers.

Například: Některé druhy (mravenců) dokonce kultivují / dokáží ve speciálně upravených komůrkách / prostorách vyprodukovat (své) vlastní jídlo / potravu.

The researchers believe that ants evolved to use tools because they are not able to expand their stomachs, and they therefore require an alternative mechanism for transporting materials.

Například: Výzkumníci / výzkumný tým věří, že mravenci se naučili / si vyvinuli schopnost používat nástroje, protože nedokáží zvětšit (objem svého) svůj žaludek, proto také potřebují alternativní mechanismus / zařízení / alternativu pro přepravu materiálů.

VII. Doplňte druhou větu ve dvojici tak, aby měla v textu stejný, nebo téměř stejný význam jako věta první. Použijte daný výraz, aniž byste změnili jeho tvar. (12 bodů)

 Tony never took any notice of the advice people gave him. Tony 	ATTENTION
Tony never paid any attention to the advice people gave him.	
2) The journey was shorter than I had expected.	LONG
The journey	
The issues was not as long as the discussion	

The journey was not as long as I had expected.

 3) Computers are half the price they were a few years ago. Computers used to be Computers used to be twice as expensive as they are now. 	AS they a	re now.
4) I think we should go home now. It's	WENT	
It's (high) time we went home.		
5) Have you received your salary yet? Have you	BEEN	vet?
Have you been paid yet?		
6) You should go now before the traffic gets too bad. You	BETTER	
You'd (/had)) better go now before the traffic gets too bad.		
VIII. Doplňte vhodná slova do textu (vždy pouze 1 slovo).	(8 bodů)	

VIII. Doplňte vhodná slova do textu (vždy pouze 1 slovo).

New Youth Club

Youngsters in the citycentre will lose outon a much-loved project if substantial funds are not found this year. The 'New Youth Club', (1) which is open to young people from the ages of 10 to 17, (2) is being threatened with closure (3) by Health and Safety officials who claim the building is unsafe. The club, built 30 years ago, was badly damaged (4) by / in / during heavy storms last year and city engineers estimate that one hundred thousand pounds is needed (5) to repair structural damage. With only limited funds (6) at their disposal, managers fear the club will have to close. Youngsters from the club have organised an Open Day (7) on / for Tuesday in an effort to raise some of the money needed to enable the repairs to (8) be undertaken. "This alone won't be enough, however," warned Adam Ross, Youth Leader.

IX. Doplňte správný tvar slovesa v závorce.

(8 bodů)

Last week I (1) was walking (walk) home after playing tennis when it (2) started (start) raining very heavily. "Oh no, I (3) will get / am going to get (get) soaked before I (4) reach/'ve reached (reach) home," I thought. "I wish I (5) had remembered (remember) to bring my raincoat." But unfortunately I (6) left / had left (leave) it at home. "How stupid of me! I (7) always forget / am always forgetting (always forget) to bring it with me." Luckily just then a friend of mine passed in her car and offered me a lift." (8) "Are you going (you go) home?"

(5 bodů)

X. Vytvořte nová slova z výrazů v závorce – použijte přípony a předpony (vyplňte vždy pouze 1 slovo). (8 bodů)

About Fish and Aquariums

There are more than 200,000 species of fish inhabiting many (1) different (differ) waters. From the deepest part of the seas thousands of feet down in total (2) darkness (dark), to the beautiful aquablue waters of the coral reefs, fish have adapted an incredible variety of life-forms, styles, and (3) behaviour / behaviours (behave). The group of aquatic animals we call fishes has evolved for over 400 million years to be the most numerousand diverse of the major vertebrate groups. Forty-one percent of the world's fish species inhabit only fresh water. This is pretty (4) amazing (amaze) considering that fresh water covers only 1 percent of the world's surface. As you (5) probably (probable) already know salt water covers 70 percent of the earth's surface. So the number and (6) variety / varieties (vary) of fresh water species to marine or saltwater species is all the more mind-boggling. While they inhabit the smallest amount of water, they have, in fact, adapted to a much (7) wider (wide) range of habitats. Let's decide what allowed them to live so (8) successfully (success) in the medium we call water.

XI. Vyberte správnou možnost. Možné je vždy pouze jedno řešení. (10 bodů) Global temperatures

The world is now warmer 1) **B** at almost any time since the end of the last ice 2) **A** and, on present trends, will continue to reach a record high for the entire period since the 3) **D** of civilisation, a study has found. Scientists say it is further 4) **A** that modern-day global warming isn't natural, but the result 5) **B** rising carbon dioxide emissions that have rapidly grown 6) **B** the Industrial Revolution began roughly 250 years ago. If 7) **C** factors were still governing the climate, the Northern Hemisphere would probably be destined to freeze overagain in several thousand years. 8) **C**, scientists believe the enormous increase 9) **C** greenhouse gases caused by industrialization will almost certainly 10) **D** that.

1)	a) that	b) than	c) then	d) thus
2)	a) <mark>age</mark>	b) era	c) period	d) cycle
3)	a) cradle	b) arise	c) first	d) dawn
4)	a) evidence	b) data	c) witness	d) sign
5)	a) in	b) <mark>of</mark>	c) on	d) with
6)	a) afterwards	b) <mark>since</mark>	c) because	d) owing to
7)	a) human	b) personal	c) <mark>natural</mark>	d) organic
8)	a) Indeed	b) Secondly	c) Instead	d) Firstly
9)	a) on	b) over	c) <mark>in</mark>	d) at
10)	a) escape	b) avoid	c) misuse	d) prevent

Část II – Kulturně-historický přehled (30 bodů)

I. Spojte oba sloupce.

 Walt Whitman 	d) Leaves of Grass		
2. William Faulkner	<mark>e)</mark> The South		
3. Henry Kissinger	b) American politician		
4. Leonard Cohen	a) Canadian singer song-writer, poet, novelist		
5. Vladimir Nabokov	c) Lolita		
1 d 2 e 3 b 4 a 5 c			

II. Zodpovězte následující otázky.(20 bodů)1. Which of these writers wrote novels about Native Americans (Indians)?(1 bod)a) James Fenimore Cooperb) Washington Irving

c) John Updike	d) Stephen Crane	
2. The Statue of Libert	y was given to the U.S. people by	(1 bod)
a) England	b) Spain	
c) France	d) Canada	
	whom in the Battle of the Little Bighorn?	(1 bod)
	ny against the Union army b) Americans agains	
	st Native Americans (Indians) d) Americans agains	t Mexicans
	nors was a dramatist?(1 bod)	
a) Nathaniel Hawthorn		
c) Sylvia Plath	d) Tennessee Williams	(2 hody)
The Senate, the House	erican Congress consist of?	(2 body)
	State Building located? New York City	(2 body)
	of Moby Dick? Herman Melville	(2 body) (2 body)
	y is currently in power in the UK?	(1 bod)
a) Labour	b) Conservatives	(
c) Liberal Democrats	d) Republicans	
9. What does the Unite	ed Kingdom consist of?	(1 bod)
	tland, Northern Ireland b)England, Scotland	, Ireland
c) England, Scotland, V	Vales d) England, Wales,	Northern Ireland
10. Which century is p	rimarily associated with the reign of Queen Victoria	? 19th century (2 body)
11. In which decade wa	as Margaret Thatcher in the position of the British p	orime minister? (1 bod)
a) 1940s	b) 1950s	
c) 1960s	d) 1980s	
	Intries is nota former British colony?	(1 bod)
a) Mongolia	b) India	
c) Australia	d) South Africa	<i></i>
	of the current British Prime Minister? Theresa May	
	ym for the British cabinet?	(2 body)
a) Windsor	b) Downing Street	
c) Buckingham Palace	d) Whitehall	
III. Spojte oba sloupce		(5 bodů)
1. Thomas More	a) Angry Young Men	
2. George Orwell	b) The Satanic Verses	
3. Geoffrey Chaucer	c) 1984	
4. Kinsley Amis	d) The Canterbury Tales	
5. Salman Rushdie	e) Utopia	

1...**E**.... 2...**C**... 3...**D**... 4...**A**..... 5...**B**.....