

**DRŽAVNO  
TAKMIČENJE**  
**2016.**

**OSNOVNA ŠKOLA**  
**ENGLLESKI JEZIK**

Autorka/autor testa .....

Recenzentkinja/recenzent .....

Podgorica, ..... 20..... godine



**Test iz engleskog jezika sastoji se od četiri dijela.**

	<b>Vrijeme rješavanja</b>	<b>Broj bodova</b>
<b>Slušanje</b>	<b>oko 15 minuta</b>	<b>20</b>
<b>Čitanje</b>	<b>25 minuta</b>	<b>25</b>
<b>Leksika i gramatika</b>	<b>30 minuta</b>	<b>25</b>
<b>Pisanje</b>	<b>50 minuta</b>	<b>30</b>

**Vrijeme rješavanja testa je 90 minuta.**

**Dozvoljeni pribor su grafitna olovka i gumica, plava ili crna hemijska olovka. Priznaju se samo odgovori pisani hemijskom olovkom. Ukoliko pogriješite, prekržite i odgovorite ponovo. Za vrijeme rada na testu nije dozvoljeno korišćenje rječnika.**

**Ako neko pitanje/zadatak ne možete odmah da riješite, pređite na sljedeće. Ukoliko vam bude preostalo vremena, možete se kasnije vratiti na takva pitanja.**

**Želimo vam puno uspjeha!**

## LISTENING

Listen to the speech and choose the correct option (A-C) to answer the questions (1-10):

1. In her free time, Swetha:

- a) engages in typical teenage activities
- b) is always on her smartphone
- c) often works on her computer

2. Swetha is trying:

- a) to devise a computer language
- b) to make the computers talk
- c) to make the communication with computers easier

3. Swetha is most interested in:

- a) the theoretical side of computer science
- b) developing websites
- c) creating computer apps

4. Swetha is:

- a) a middle-schooler
- b) junior member at a science and technology institution
- c) a university student of science and technology

5. Swetha came to TJ in order to:

- a) find out what she liked
- b) see whether she was sure about studying computer science
- c) take advantage of her creativity

6. Swetha started a company in order to:

- a) earn a profit from her talents
- b) create a network of young engineers
- c) encourage young people to study science and technology

7. In elementary school, pupils learn:

- a) how to code
- b) how to create websites
- c) how computer science is used in websites

8. Swetha's plans for the future involve:

- a) expanding her company
- b) introducing coding to more schools
- c) visiting India and Ghana

9. Swetha has received recognition for:

- a) founding an international company
- b) being a young woman introducing change
- c) being a young engineer

10. Swetha was among \_\_\_\_\_ people who received this award in September.

- a) 2
- b) 15
- c) 11

## READING

**A. Read the text carefully and decide whether the statements below are *true* or *false*. Write your answers (T or F) in the grid provided below.**

### There's water on Mars

Mars appears to have flowing rivulets of water, at least in the summer. Scientists have reported this in a finding that boosts the odds of life on the red planet. Scientists in 2008 confirmed the existence of frozen water on Mars, and now, instruments aboard NASA's Mars Reconnaissance Orbiter have yielded what researchers said is the strongest



evidence yet. It appears that water in liquid form trickles down certain Martian slopes.

The rivulets – if that's what they are, since the evidence for their existence is indirect – are about 12 to 15 feet wide. They are 300 feet or more long, scientists said. They apparently consist of wet soil,

not standing water. The water is believed to contain certain salts. It is not ordinary table salt, it's more like road salt used to melt ice and snow on Earth. Such compounds can prevent water from freezing at extremely low temperatures. That would explain how water could exist in liquid form on Mars. The planet has an average temperature of minus 81 degrees Fahrenheit.

Michael Meyer is the lead scientist for NASA's Mars exploration program. He said the only definitive way for now to determine whether there's life on Mars is to collect rocks and soil for analysis on Earth. It is something a U.S. lander set for lift off in 2020 will do. "Water is one of the most precious resources necessary for a human mission to the red planet," noted Rep. Lamar Smith, R-Texas. He is chairman of the House science, space and technology committee. "The more evidence we find of it, the more encouraged I am for future Mars missions."

The source of the briny water is a mystery. Scientists said it could be melting ice, an underground aquifer, water vapor from the thin Martian atmosphere, or some combination. The evidence of flowing water consists largely of dark, narrow streaks on the surface. They tend to appear and grow during the warmest Martian months. They fade the rest of the year. The streaks are in places where the temperature is as low as 10 below zero.

They were spotted by the Mars orbiter's high-resolution, telescopic camera. Another on-board instrument detected the chemical signature of salt compounds combined with water. McEwen said that there appears to be a "significant volume" of water. He speculated that it could fill many Olympic swimming pools. But it is spread thin.

Present-day Mars is nothing like ancient Mars. Three billion years ago, our most Earthlike neighbor had a huge ocean. But something radical happened. Exactly what remains a mystery.

The notion of water and life on Mars has been irresistible to earthlings for generations. In 1877, Italian astronomer Giovanni Schiaparelli spied what he called "canali" on Mars - Italian for "channels". The word was mistranslated as "canals" in English, which caused imaginations to run wild. In the early 1900s, amateur astronomer Percival Lowell claimed to have spotted irrigation canals and theorized they were built by Martians.

1. The existence of water of Mars suggests that there might be life on this planet.
2. Scientists have been able to spot rivers on Mars.
3. Martian soil is damp with salty water.
4. Water on Mars is permanently frozen due to low temperatures.
5. There are still bodies of salty water on Mars.
6. Scientists will be able to confirm whether there is life on Mars by the end of the decade.
7. The origin of Martian water has been explained recently.
8. The water on Mars is not easy to spot.
9. There seems to be a lot of water on Mars.
10. Observations of the Red Planet indicate that oceans may have been prominent features in its early history.
11. The idea of life on Mars used to be popular among the public as some astronomers mistakenly thought they had detected water channels on the planet.

1	2	3	4	5	6	7	8	9	10	11
T	F	T	F	F	F	F	T	T	T	T

**B. Read the text and match the headings (A-I) to the paragraphs (1-7). Two headings are extra. Complete the table below.**

### **How to Have a Good Teen Life**

As a teenager, you'll be starting high school and making new friends. Your hormones are racing the most in these few years, so it can be quite a roller coaster ride, but by the time you are a junior or senior, they are settled. Make the best of it by taking the advice below, so that you can remember good things from the past when you are an adult. You will be an adult soon enough, but you will experience many different changes on the way!

1. \_\_\_\_\_. As simple as this may be, a healthy social life is the key to enjoying your life in spite of the stress of school. Shop with friends; enjoy buying clothes and accessories. Go to a theme park, water park, or a few trips. Try to make at least two best friends, and try to make many friends from your gender and two or three the opposite gender for diversity. Go to arcade places, bowling, or teen clubs and places; this will be the best interaction with other teenagers or people around your age.

2. \_\_\_\_\_. Sew, read, play computer games, draw, or do yoga. Get a and/or Facebook account, but try not to get addicted to it. Make videos with your friends and post them on YouTube. Check online to see the hottest new music and the coolest new artists and songs of your genre of choice. You don't have to be a fan of pop music only; if you like to listen to your grandma's '50s doo wop albums or some nice relaxing smooth jazz or Bob Marley, go ahead, be a fan of your favorite sports team. Find whatever you enjoy doing and do it! Start a movie or book collection.

3. \_\_\_\_\_. Write music, write stories and poems, create cool drawings, learn how to create web pages and computer programs, create your own clothes, cook, bake, work on a car, play an instrument, etc.

4. \_\_\_\_\_. This doesn't have to be a celebrity, just someone who inspires you, perhaps someone in your family or community, who is really good at what they do. Learn from them and find motivation to become a better person.

5. \_\_\_\_\_. It's important to be home on time. Even if you have to get home earlier than your friends, you need to respect your parents and be home at the exact time your parents said. If your parents won't let you out at all, talk to them about how you respect their decision and that you will work hard to show them you can be trusted to go out with your friends they have met.

6. \_\_\_\_\_. Always turn in your homework on time and do well on tests. Education is the most important thing in your life; doing poorly, not trying, or dropping out of school can hurt your future in a significant way. If you are getting bad grades because you are struggling with something, get help. But if you are just being lazy, or procrastinating, it can certainly affect your college and career opportunities in the future.

7. \_\_\_\_\_. Volunteering can not only improve your status, it could make you happier. Studies show that people who volunteer are less likely to develop depression and



other emotional issues than people who don't. Find volunteer opportunities that interest you, for example, if you love animals, volunteer at an animal shelter. If you like helping people, volunteer at a soup kitchen. If you love helping the environment, plant trees or pick up litter. When you help others, it will make you feel better about yourself. You're making a big difference in the world, and to top it all off, having lots of volunteer hours will look good on your resume!

- A. Figure out your goals in life.
- B. Hit the books.
- C. Respect your curfew.
- D. Show off your talents.
- E. Pal around.
- F. Pursue leisure activities.
- G. Help out in the community.
- H. Get along with your parents.
- I. Find a role model.

1	2	3	4	5	6	7
E	F	D	I	C	B	G

## VOCABULARY AND USE OF ENGLISH

### A. Choose the best answer and complete the table below:

#### Exoskeleton boots

Engineers have 1. \_\_\_\_\_ a motor-free device to make walking more efficient and easier – something scientists once thought couldn't be done. The prototype exoskeleton boot runs from just below the knee to the ankle. When you 1. 2. \_\_\_\_\_ on a pair, you can reduce the energy it takes to walk 3. \_\_\_\_\_ 7 percent. That means you won't burn 4. \_\_\_\_\_ many calories.

It's wearable robotics without a motor or a power source. The one-pound device 5. \_\_\_\_\_ instead on a spring to store energy and release it with each step and a clutch that engages the spring at the proper moment. The device is a little too 6. \_\_\_\_\_ to fit under pant legs or socks.

"It doesn't look too bad. Looks kind of 7. \_\_\_\_\_," said Carnegie Mellon University engineering professor Steven Collins. He is the lead author of a study published in the journal Nature. "When you first put them on, it feels a little bit 1. 8. \_\_\_\_\_. Then after a few minutes you don't really notice it very much."

With an obese nation, making exercise burn 9. \_\_\_\_\_ calories may not seem like the best idea. But it's not as crazy as it sounds, Collins said. This sort of hydraulic 10. \_\_\_\_\_ could also boost the development of other exoskeleton devices, perhaps for the hips.

- |                  |            |              |                 |
|------------------|------------|--------------|-----------------|
| 1. a) discovered | b) devised | c) composed  | d) come up with |
| 2. a) tie        | b) strap   | c) wear      | d) connect      |
| 3. a) of         | b) to      | c) by        | d) on           |
| 4. a) as         | b) very    | c) a lot     | d) sufficiently |
| 5. a) relies     | b) rests   | c) based     | d) produced     |
| 6. a) huge       | b) awkward | c) bulky     | d) voluminous   |
| 7. a) glittering | b) flashy  | c) sparkling | d) shiny        |
| 8. a) tight      | b) random  | c) casual    | d) odd          |
| 9. a) less       | b) more    | c) fewer     | d) many         |
| 10. a) outfit    | b) cast    | c) formation | d) complex      |

1	2	3	4	5	6	7	8	9	10
D	B	C	A	A	C	B	D	C	B

**B. Read the text below. Use the word given in capitals at the end of each line to form a word that fits in the space in the same line. There is an example at the beginning.**

**\$500M Boston art heist remains mystery 25 years later**

It's been called the **biggest** art heist in U.S. history, perhaps the **BIG**

biggest in the world. But 25 years later, the theft of 13 works from

Boston's Isabella Stewart Gardner Museum remains \_\_\_\_\_ **SOLVE**

The theft has spawned books, rumors and \_\_\_\_\_ about **SPECULATE**

who was responsible - and multiple dead ends.

Yet authorities and museum officials remain \_\_\_\_\_. They **HOPE**

note that stolen art almost always gets returned. It just sometimes

takes a generation or so. "Although a quarter-century has passed

since the art was stolen, we have always been \_\_\_\_\_ to **DETERMINE**

recover it and we remain optimistic that we will," said Anne Hawley.

She is the Gardner's director and was in charge at the time of the

theft. Authorities say the artwork is worth perhaps as much as a half-

billion dollars. Museum officials say it's \_\_\_\_\_ because it **PRICE**

cannot be replaced.

<b>0</b>	<b>BIG</b>	<b>BIGGEST</b>
<b>1</b>	SOLVE	UNSOLVED
<b>2</b>	SPECULATE	SPECULATION
<b>3</b>	HOPE	HOPEFUL
<b>4</b>	DETERMINE	DETERMINED
<b>5</b>	PRICE	PRICELESS

**C. Complete the second sentence using the word given so that it has a similar meaning to the first sentence. You are not allowed to change the given word. You must use between TWO and FOUR words, including the word given. Here is an example at the beginning.**

**Write ONLY the missing words.**

**(0)**

*They are going to get married next June.*

**PLANNED**

*Their marriage is **planned for next June**.*

1. Many people used to believe that they would lose their soul if their photo was taken.

**WIDESPREAD**

There was once **a widespread belief that** to have your photo taken would mean losing your soul.

2. We weren't aware that we were making a big mistake.

**KNOW**

Little **did we know** that we were making a big mistake.

3. It's not possible to play tennis because of the rain.

**MAKES**

The rain **makes it impossible** to play tennis.

4. They wanted to apologize for their behaviour: that's why they paid for dinner.

**ORDER**

They paid for dinner **in order to** apologise for their behavior.

5. It wasn't necessary to meet me at the airport yesterday.

**NEEDN'T**

You **needn't have met** me at the airport yesterday.

**D. Complete the text using ONE word per each gap.**

*Adapted from The Woman in White, by Wilkie Collins*

It was the last day of July, 1849, and the heat in London **had** been terrible all day. I was sitting in my room, **trying** to read, but I couldn't concentrate on my book. It was too hot and the constant noises from the street **disturbed** me. So as I had many things to think about, I decided to go for a **walk** in the cool evening air.

My name is Walter Hartright and I'm an art teacher. This was my last night in London. Early the following morning I was due to travel to Cumberland in the north of England. I had been offered a job **there** — at a place called Limmeridge House, near the small village of Limmeridge.

My future employer was a gentleman **called** Mr Frederick Fairlie. He had advertised for an art teacher to teach drawing and sketching to his two nieces. This teacher **would** live at Limmeridge House with the family.

I knew I **was** very lucky to get this job. Teaching the young ladies would be easy and pleasant, and the pay and working conditions were excellent. But at the same time I had a very strange feeling **about** the job. I didn't want to take it, but I couldn't explain why. Perhaps even then I knew **deep** inside that it would change my life forever.



