GuyAI
מבית GOOL בגרויות

סוג הבחינה: בחינת גמר ממלכתית
מועד הבחינה: קיץ 2025 מועד ב'
סמל השאלון: 99911
שם התלמיד/ה: _____

אנגלית

מכינה טכנולוגית · מכינה טכנולוגית

הוראות

א. משך הבחינה: שלוש שעות.

ב. מבנה השאלון ומפתח ההערכה: בשאלון זה ארבעה חלקים: חלק א' - הבנת הנקרא - 35 נקודות חלק ב' - הבנת הנקרא - 25 נקודות חלק ג' - אוצר מילים וכתיבת משפטים - 24 נקודות חלק ד' - הוראות - 16 נקודות

ג. חומר עזר מותר בשימוש: 1. מילון דו-לשוני (אנגלית שפת אם) רגיל או אלקטרוני. המילון יהיה ללא חומר האסור בשימוש או אפשרות לגלישה באינטרנט. חל איסור להשתמש בתרגומון מכל סוג שהוא (לדוגמא: קוויקשנרי) 2. מונחון 700 מילים של מה"ט.

ד. הוראות מיוחדות: הוראות מיוחדות: 1. יש למלא את כל הפרטים הנדרשים בדף המקדים המצורף לשאלון זה. 2. תשובות יש לכתוב רק בתוך שאלון זה ולא במחברת הבחינה, גם אם המחברת ניתנה לכם. הוראות כלליות: 1. יש לקרוא בעיון את ההוראות וההנחיות בבחינה ולוודא שהן מובנות לכם. ניתן לענות על השאלות לפי הסדר הרצוי לכם. 2. יש לכתוב את התשובות בעט כחול או שחור בלבד ובכתב יד ברור. 3. אין לסמן או להדגיש תשובות במרקר. 4. אין לתלוש דפים משאלון הבחינה.

השאלות בשאלון זה מנוסחות בלשון רבים, אף על פי כן על כל תלמידה וכל תלמיד להשיב עליהן באופן אישי.

בהצלחה!

השאלות

1. Part I – READING COMPREHENSION (A)

Read the following passage carefully and answer the questions in English. (35 points)

קראו את הקטע שלפניכם וענו על השאלות שאחריו באנגלית.

A Better Kind of Plastic

I

Every year, millions of tons of plastic are produced globally. Plastic releases toxic microplastics* that enter the human body and make it sick. In addition, plastic waste* pollutes the soil, air, and water. Recycling is one solution to the problem of plastic waste. However, the quality of recycled plastic is lower than the quality of new plastic. As a result, most plastic cannot be recycled more than once, and after that, the plastic needs to be thrown away.

*microplastics - חלקיקי פלסטיק זעירים

*plastic waste - פסולת פלסטיק

II

Recently, researchers from the University of California invented a new kind of plastic called polydiketoenamine (PDK) plastic. PDK plastic looks and feels just like regular plastic. However, PDK plastic is made from plants instead of petroleum, so it does not release toxic microplastics. In addition, recycling does not harm the quality of PDK plastic, so there is no limit to the number of times it can be recycled.

III

The researchers hope that in the future, many big companies will use PDK plastic. Companies will make products with PDK plastic and sell them. The customers will return the products when they are finished using **them**, and the company can then recycle the plastic again and again. In this way, the company will have to buy very little plastic to make new products. For example, a company that makes cars can use PDK plastic for the car parts. Customers can trade in their old cars for new models, and then the company can recycle the plastic to make new parts.

IV

However, companies are not yet using PDK plastic because it is more expensive than regular plastic and because its recycling process is not very cheap. The researchers are now testing different methods to find the cheapest way to make and recycle PDK plastic. They are also working hard to reduce the amount of energy needed for the recycling process and to reduce the amount of harmful CO_2 that is released into the atmosphere during recycling. If the researchers are successful, PDK can become an effective solution to the world's plastic problem.

Adapted from: ScienceDaily

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Answer the following questions in English. (35 points)

ענו על השאלות הבאות באנגלית.

A. List two ways in which plastic is harmful: (paragraph I)

1. ____

2. ____

(4 נקודות)

B. What can help reduce the harmful effects of plastic? (paragraph I)

(2 נקודות)

C. Why can't most plastic be recycled more than one time? (paragraph I)

(4 נקודות)

D. What is the main idea of paragraph II? Circle the correct answer:

a. PDK plastic is made of petroleum, which releases microplastics.

b. PDK plastic looks and feels different from regular plastic.

c. PDK plastic can be recycled more times than regular plastic.

d. PDK plastic has features that make it better than regular plastic.

(4 נקודות)

E. What does the word **them** in line 13 refer to?

(2 נקודות)

F. Check (✓) the TWO statements that are true: (paragraph III)

1. ____ Companies will be able to recycle PDK plastic whenever customers return products.

2. ____ Today many major companies are using PDK plastic to make their products.

3. ____ Car companies can produce new car parts using the PDK plastic from old parts.

4. ____ Customers can return regular plastic products and get PDK plastic products instead.

(8 נקודות)

G. Mark the following statement True or False: (paragraph IV) (1+3 points)

(a) Circle the correct answer:

Because of its low cost, PDK plastic has become popular. TRUE / FALSE

(b) Support your answer from the text:

(4 נקודות)

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H. Complete the following sentence: (paragraph IV)

The researchers are doing experiments to find a _____ for making low-cost PDK plastic.

(3 נקודות)

I. To make sure that PDK plastic is not bad for the environment, what do the researchers need to achieve? List two: (paragraph IV)

1. ____

2. ____

(4 נקודות)

2. Part II – READING COMPREHENSION (B)

Read the following passage carefully and answer in ENGLISH. (25 points)

קראו את הקטע שלפניכם וענו על השאלות שאחריו באנגלית.

Supersonic Flight

I

Sound travels through Earth's atmosphere at a speed of between 1,060 kilometers per hour and 1,280 kilometers per hour, depending on how dry the air is and on the temperature of the air. Supersonic flight is when an airplane travels faster than the speed of sound. The first supersonic airplane was an American military airplane, which broke the sound barrier in October 1947, reaching a top speed of 1,126 kilometers per hour. The first civilian supersonic airplane was a Russian airplane for delivering mail that operated from June 1969 until June 1999. It could fly up to 2,443 kilometers per hour.

II

The only supersonic airplane for carrying passengers was the Concorde, which first flew in 1973. The Concorde was 62 meters long, almost the same as a Boeing 747 jet airplane*, but it was only 2.7 meters wide, while the Boeing 747 is 6.1 meters wide. This design allowed the Concorde to fly at supersonic speeds, but it also meant that it could only hold up to 100 passengers, compared to the 416-passenger capacity of a Boeing 747. In 2003, the Concorde stopped flying. Nowadays, many countries have supersonic military airplanes, but supersonic flight is not used to transport passengers.

*Boeing 747 jet airplane - מטוס סילון של בואינג 747

Adapted from: Britannica

Answer the following questions in English. (25 points)

ענו על השאלות הבאות באנגלית.

A. How fast does sound move through Earth's atmosphere? (paragraph I)

(4 נקודות)

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B. Which two factors affect the speed of sound? (paragraph I)

1. ____

2. ____

(4 נקודות)

C. Fill in the following table about the first supersonic airplanes: (paragraph I)

	Description of airplane	Maximum speed	Date it started flying
1.	____	____	October 1947
2.	Civilian Russian airplane for delivering mail	____	____

(8 נקודות)

D. What does **2.7 meters** represent? Circle the correct answer. (paragraph II)

a. the length of the Concorde airplane

b. the width of the Concorde airplane

c. the length of a Boeing 747 airplane

d. the width of a Boeing 747 airplane

(3 נקודות)

E. How many people can a Boeing 747 hold? (paragraph II)

(2 נקודות)

F. Mark the following statement True or False: (paragraph II) (1+3 points)

(a) Circle the correct answer:

Today, armies do not use supersonic flight. TRUE / FALSE

(b) Support your answer from the text:

(4 נקודות)

3. Part III- Vocabulary and Unscrambling Sentences

Total Points: (24 points)

Part A (18 points)

In each question match three of items 1-6 to the definitions on the right.

Write the number of the item next to its definition. (3 points each)

בכל שאלה התאימו שלושה פריטים 1-6 להגדרות מימין.

כתבו את מספר הפריט ליד ההגדרה שלו. (3 נק' לכל אחד)

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1. 1. husband

2. meal

3. behavior

4. advice

5. accident

6. urgent

___ helpful ideas or suggestions

___ a man who is married

___ when something is very important and must happen quickly

(9 נקודות)

2. 1. destroy

2. library

3. channel

4. translate

5. disadvantage

6. condition

___ a place where you can read or borrow books

___ to break or damage something completely

___ to change words from one language to another language

(9 נקודות)

4. Part III- Vocabulary and Unscrambling Sentences

Part B (6 points)

Put the words in the correct order and copy them onto the line below. Pay attention to capitalization and punctuation. (2 points each)

סדרו את המילים בסדר הנכון והעתיקו אותן לשורה למטה. שימו לב לאותיות גדולות ולסימני פיסוק. (2 נק' לכל אחת)

1. because / too much / Sweet / it has / food / isn't healthy / sugar.

(2 נקודות)

2. are developing / a new / for blood pressure. / from a British university / Scientists / medicine

(2 נקודות)

3. an engineering / in Tel Aviv. / My sister / company / works for

(2 נקודות)

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.5 Part IV – INSTRUCTIONS (16 points)

Read the questions below and match them to the answers that follow. (2 points each)

קראו את השאלות שמופיעות והתאימו אותן לתשובות. (2 נק' לכל אחת)

How to Buy a Laptop

:Answers

.a. Because then you can use the laptop for hours without needing to charge it

.b. Yes, you should, because some give better customer support than others

.c. It depends on what you want to use the laptop for – for work, gaming, or school

d. Good laptops start at around 500 dollars, but you can get some laptops for less.\ne. .Your laptop will not weigh a lot, and you will be able to carry it around easily

.f. Some laptops allow you to add more storage and other features later, but some do not

.g. A laptop needs at least 8 GB of RAM, and for some actions, a laptop needs 16 GB

.h. You can read reviews on tech websites or online shops like Amazon

.1 ?What kind of laptop should I buy

(2 נקודות)

.2 ?How much memory does my laptop need

(2 נקודות)

.3 ?What is the advantage of having a laptop with a small screen

(2 נקודות)

.4 ?Why is it important to have long battery life

(2 נקודות)

.5 ?How much does a laptop cost

(2 נקודות)

.6 ?Should I care which company made the laptop

(2 נקודות)

.7 ?How can I get information about different kinds of laptops

(2 נקודות)

.8 ?Can I upgrade my laptop later, after I buy it

(2 נקודות)

כל מבחני מה"ט עם פתרונות מלאים: www.guyai.co.il/mahat

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