GuyAI
מבית GOOL בגרויות

סוג הבחינה: בחינת גמר ממלכתית
מועד הבחינה: אביב 2024 מועד א' (פעימה ראשונה)
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: 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).

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 בחינה, גם אם ניתנה לכם. הוראות כלליות: 1. יש לקרוא בעיון את ההנחיות ואת השאלות 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.

Green Laser Lights Prevent Damage from Birds

I

Birds are wonderful creatures, but they can cause problems for farmers. Birds eat many kinds of crops, and as a result, farmers lose a lot of money. Some farmers put scarecrows in their fields to scare birds away. However, after some time, the birds learn that the scarecrows are not a danger to them, and they start eating the crops again. Other farmers cover their crops with nets, but nets can be dangerous for birds and are also expensive to install.

II

Rebecca Brown, a researcher from the University of Rhode Island, recently developed a new technology to prevent birds from damaging crops: a laser system sends a green laser light over the fields. It scares the birds away because they think the light is a dangerous animal. The laser light must move back and forth across the field. If the light stops moving, the birds start to ignore it. The most effective time to activate the system is very early in the morning and in the evening hours because bright sunlight makes it hard to see the laser light. After a few days, the birds learn to avoid the field and do not come back anymore.

III

In the past, lasers were mainly used in closed spaces such as warehouses or indoor basketball courts. In closed spaces, laser systems are effective even if they are small. However, in large, open fields, laser systems need to be larger and need a lot of power, which made **them** too expensive. Recently, it has become cheaper to make LED-based lasers and powerful batteries, and as a result, laser systems can now also be used in big, open spaces.

IV

The green laser light scares birds away from the crops and forces them to look for other sources of food. However, it does not cause them any physical harm. It also does not damage crops or the natural environment. With green laser systems, farmers can continue to make a high profit from their fields and protect birds and the environment as well.

Adapted from: Just Agriculture

Answer the following questions in English. (35 points)

ענו על השאלות הבאות באנגלית.

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A. Why are birds bad for farmers? (paragraph I)

(4 נקודות)

B. List two methods farmers often use to try to protect fields from birds: (paragraph I)

1. ____

2. ____

(4 נקודות)

C. What is the disadvantage of using scarecrows? (paragraph I)

(4 נקודות)

D. What are two disadvantages of nets? (paragraph I)

1. ____

2. ____

(2 נקודות)

E. Which of the following statements are TRUE? Check (✓) 2: (paragraph II)

1. ____ The birds think the laser light is a danger to them, so they fly away.

2. ____ The birds ignore the laser light when it is moving back and forth.

3. ____ It is necessary to continue using the light for many weeks to keep the birds away.

4. ____ The laser light cannot be easily seen in the middle of the day when the sun is bright.

(8 נקודות)

F. What is the **main idea** of paragraph III? Circle the correct answer:

a. Many farmers use laser systems to prevent damage from birds to crops.

b. Today lasers can be used in both closed spaces and large, open spaces.

c. Powerful batteries are needed to operate lasers in large, open spaces.

d. Laser system against birds can only be used in small, closed spaces.

(4 נקודות)

G. What does the word **them** in line 15 refer to?

(2 נקודות)

H. How is the laser system "friendly" to birds? (paragraph IV)

(3 נקודות)

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

(a) Circle the correct answer:

Farmers who use the laser system in their fields lose money. TRUE / FALSE

(b) Support your answer from the text:

(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.

Plastic Roads

I

Humans produce 350 million tons of plastic yearly. Most of it becomes waste* and causes pollution. For example, 17 million tons of plastic end up in the ocean yearly. Only 9% of all plastic is recycled. One way to recycle more plastic is to use plastic waste* to build roads. Building plastic roads can help recycle 40% of all plastic waste. Plastic roads were first built in India in 2004. Vietnam began using them in 2019, and in South Africa, the first plastic road opened in 2020.

*waste - פסולת

*plastic waste - פסולת שעשויה מפלסטיק

II

Regular roads are made from sand (90%) and bitumen* (10%). There are two methods for making plastic roads. In the first method, plastic replaces 5% of the bitumen. In the second method, the road is completely made of plastic. In both methods, it is necessary to heat the plastic. Some people worry that this can release harmful gases into the environment. However, plastic only releases harmful gases when it reaches 270 degrees Celsius, and to make roads, plastic is only heated to 170 degrees Celsius.

*bitumen - החומר השחור הדביק באספלט

III

In addition to their environmental benefits, plastic roads are also stronger than regular roads, and water causes them less damage. Using plastic in roads will surely become more popular.

Adapted from: Yale Environment 360

Answer the following questions in English. (25 points)

ענו על השאלות הבאות באנגלית.

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A. Fill in the amount or percent of plastic: (paragraph I)

	Amount or percent of plastic
1. How much plastic is manufactured each year?	___
2. How much plastic is recycled each year?	___
3. How much plastic waste can be recycled if we put plastic in roads?	___
4. How much plastic waste ends up in the oceans each year?	___

(8 נקודות)

B. Complete the following sentence: (paragraph I)

_____ was the first country to use plastic in roads.

(3 נקודות)

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

(a) Circle the correct answer:

In the **first** method for making plastic roads, plastic replaces **all** the bitumen.

TRUE / FALSE

(b) Support your answer from the text:

(4 נקודות)

D. In the **second** method for making plastic roads, how much of the road is made of plastic? (paragraph II)

a. 5%

b. 10%

c. 100%

d. 90%

(3 נקודות)

E. Why is heating plastic to 170 degrees not harmful to the environment? (paragraph II)

(3 נקודות)

F. What are the two advantages of plastic roads compared to roads without plastic? (paragraph III)

1. ___

2. ___

(4 נקודות)

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3. Part III- Vocabulary and Unscrambling Sentences

Total Points: (24 points)

Part A (18 points)

.In each question match three 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)

1.

1. advertisement
2. fuel
3. balance
4. pollution
5. factory
6. method

___ a way to do or achieve something

___ a place where products are made

___ a material that is burned to produce energy

(9 נקודות)

2.

1. painful
2. toxic
3. unemployed
4. result
5. recently
6. multiple

___ when something happened or started not long ago

___ when something hurts

___ a person who does not work

(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 פסוק. (2 נק' לכל אחת)

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1. every day. / three / Many people / meals / eat / large

(2 נקודות)

2. .to / the natural / Plastic bags / are harmful / environment

(2 נקודות)

3. cars / of / last year. / decreased / electrical / The price

(2 נקודות)

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)

Charging a Mobile Phone

:Answers

.a. No, because opening them again uses a lot of power and drains the battery

.b. Rapid charging is bad for the battery, so don't use this method often

c. In most cases, a technician can install a new battery, and you can continue using the .phone

d. Usually around 2-3 years. It could be even longer if you take very good care of your .phone.\ne. No, it's best to charge your phone before it reaches 20%

.f. Yes. For many phones, a black screen with white font uses less battery power

g. Disable Bluetooth, Wi-Fi, and GPS when you are not using them to get more battery .time

.h. No, you should stop charging your phone when it reaches 80%

1. ?How many years can a phone battery last

(2 נקודות)

2. ?Should I charge my phone only when it goes down to 0%

(2 נקודות)

3. ?Should I charge my phone until the battery is fully charged

(2 נקודות)

4. ?Is it good to use a fast charger

(2 נקודות)

5. ?What should I do to make my phone battery last longer between charges

(2 נקודות)

6. ?Is it good to close all apps that are running in the background if I am not using them

(2 נקודות)

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7. **Does the color of my screen impact my battery life?**

(2 נקודות)

8. **If my phone battery doesn't work anymore, can I replace it, or do I have to buy a new phone?**

(2 נקודות)

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