GuyAI
מבית GOOL בגרויות

סוג הבחינה: בחינת גמר ממלכתית
מועד הבחינה: אביב 2026 מועד א'
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.

Underwater Data Centers

I

Every year, people use more and more apps and artificial intelligence. These technologies depend on very large data centers. A data center is a building with big computers that provide internet connection, run software programs, and store information. The equipment in a data center heats up quickly and as a result can become damaged. To prevent this, cooling systems are installed. The cooling systems are effective, but they are expensive because they use a lot of electricity. In addition, they pollute the environment because their electricity comes from fuels such as oil and coal.

II

Recently, several companies have tried a new idea: putting data centers underwater. The data center is built inside a special capsule*, and the capsule is put underwater in the ocean. The cold water cools the data center, and as a result, **it** does not need a cooling system. This reduces electricity use. Another advantage of putting data centers in the ocean is that many people live in big cities near the coast, so these nearby data centers can provide faster internet connections for them.

*capsule - קפסולה

III

In **2015**, Microsoft put a small data capsule into the ocean near California. After four months, engineers took the capsule out of the ocean and tested it. They saw that the equipment was in good condition. In **2018**, Microsoft did another experiment. They put a bigger data capsule into the ocean near Scotland. This second data center used clean energy sources and so did not pollute the ocean. After two years, the engineers took it out of the water and saw that the equipment was in good condition. This was because the ocean water kept the equipment very cool, so it was not damaged.

IV

However, the ocean may not be suitable for very big data centers. Maintaining a lot of equipment in a big underwater center can be very expensive, and it is not easy to build capsules that are large enough to protect large amounts of equipment underwater. Engineers need to solve these problems before the world's data centers can be moved underwater.

Adapted from: Brightlio

Answer the following questions in English. (35 points)

נכתב ונבדק על ידי צוותי GOOL בגרויות ו-GuyAI · www.guyai.co.il

ענו על השאלות הבאות באנגלית.

A. List three actions that the computers in a data center do: (paragraph I)

1. ____
2. ____
3. ____

(3 נקודות)

B. Why do data centers need cooling systems? (paragraph I)

(4 נקודות)

C. What are the two disadvantages of the cooling systems? (paragraph I)

1. ____
2. ____

(4 נקודות)

D. Check (✓) the TWO statements that are true: (paragraph II)

1. ____ Companies put capsules with data centers inside them into the ocean.
2. ____ The data centers stay cool in the water, and this harms the equipment in them.
3. ____ Many people live far away from underwater data centers in the ocean.
4. ____ In underwater data centers, less electricity is needed to cool the equipment.

(8 נקודות)

E. What does the word **it** in line 9 refer to?

(2 נקודות)

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

a. In 2018, Microsoft checked the condition of the equipment in regular data centers.

b. Microsoft built an underwater data center, but the ocean water harmed the equipment.

c. Microsoft tried out an underwater data center for four months near California.

d. In two experiments, Microsoft saw that the ocean was a good place to keep data centers.

(4 נקודות)

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

(a) Circle the correct answer:

Microsoft's 2018 underwater data center was environmentally friendly. TRUE / FALSE

(b) Support your answer from the text:

(4 נקודות)

נכתב ונבדק על ידי צוותי GOOL בגרויות ו-GuyAI · www.guyai.co.il

H. What kind of data centers may not succeed underwater? (paragraph IV)

(3 נקודות)

I. Complete the following sentence: (paragraph IV)

.It is _____ to maintain large amounts of equipment underwater

(3 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.

Animals and Climate Change

I

Climate change has negative effects not only on people but on animals and plants, too. Experts say that if there is a 2° Celsius increase in global temperatures by 2100, 18% of species* on land may become extinct*. Some animals are already extinct because of climate change. The Bramble Cay rat lived on an island of less than one square kilometer. It became extinct in 2019 because the sea flooded the area where it lived. The golden toad from Costa Rica became extinct at the end of the 20th century. Because of climate change, .the rainfall in Costa Rica changed, and the toad could not survive

*species - זנים

*become extinct - להיכחד

II

Other animals are in danger. Between 2004 and 2011, 62,000 African penguins died. They depended on sardines for food, but most of the sardines disappeared from their area because of climate change. Another animal in danger is the Amazon dolphin. In 2023, lakes in the Amazon heated up to 41° Celsius, hotter than a hot jacuzzi*, and as a result, 153 dolphins died. This was a loss of 10% of the dolphin population in the Amazon. If we .care about animals, we must try to stop climate change

*jacuzzi - ג'קוזי

Adapted from: IFAW

Answer the following questions in English. (25 points)

ענו על השאלות הבאות באנגלית.

נכתב ונבדק על ידי צוותי GOOL בגרויות ו-GuyAI · www.guyai.co.il

A. What does 18% represent? Circle the correct answer. (paragraph I)

a. the percent of species on land that are in danger of extinction by 2100

b. the percent of species that live in areas with a temperature increase of 2°

c. the percent of species that will live on land by the year 2100

d. the percent of species on land that became extinct since the year 2001

(4 נקודות)

B. Fill in the following table about animal species that became extinct: (paragraph I)

	Animal	When it became extinct	Reason it became extinct
1.	Bramble Cay rat	___	___
2.	___	___	The rainfall in Costa Rica changed

(8 נקודות)

C. How big was the area where the Bramble Cay rat lived? (paragraph I)

(3 נקודות)

D. Which animal did African penguins mainly eat? (paragraph II)

(3 נקודות)

E. What is the temperature of a hot jacuzzi? Circle the correct answer. (paragraph II)

a. 41° Celsius

b. more than 41° Celsius

c. less than 41° Celsius

(3 נקודות)

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

(a) Circle the correct answer:

In 2023, most of the dolphins living in the Amazon died. 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)

נכתב ונבדק על ידי צוותי GOOL בגרויות ו-GuyAI · www.guyai.co.il

1. 1. dinner

2. disappear

3. liquid

4. topic

5. public

6. cousin

___ to become impossible to see

___ the meal that is eaten in the evening

___ the child of your aunt or uncle

(9 נקודות)

2. 1. river

2. author

3. depend on

4. protein

5. aim

6. avoid

___ a person who writes books, articles, or stories

___ something you want to achieve or reach

___ to need someone or something to help you

(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. a new / for blind people. / The engineers / device / developed

(2 נקודות)

2. on your phone / can make you / Spending / depressed. / too much time

(2 נקודות)

3. decided / The two / to go to / for three months. / friends / South America

(2 נקודות)

נכתב ונבדק על ידי צוותי GOOL בגרויות ו-GuyAI · www.guyai.co.il

.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 Protect Your Digital Information

:Answers

.a. Don't click on any links in it and delete it quickly

.b. Use it to buy only from trusted websites

.c. You should change it right away

d. Yes, but only if you avoid using passwords or giving personal information.\ne. Make .them long and include letters, numbers, and symbols in them

.f. Because this will help protect your computer from security problems

.g. Change the settings so only friends can see your posts

.h. Set a code or fingerprint lock so only you can open it

.1 How can I create strong passwords?

(2 נקודות)

.2 What should I do if an email or text message looks strange to me?

(2 נקודות)

.3 How can I keep my phone safe?

(2 נקודות)

.4 How can I keep my credit card safe online?

(2 נקודות)

.5 Is it safe to use public Wi-Fi?

(2 נקודות)

.6 How can I keep my personal information private on social media?

(2 נקודות)

.7 Why is it important to update the software on my computer?

(2 נקודות)

.8 What should I do if someone steals my password?

(2 נקודות)

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

נכתב ונבדק על ידי צוותי GOOL בגרויות ו-GuyAI · www.guyai.co.il