

工 学 部

入 学 試 験 問 題

奨学生12月17日

英 語

注 意 事 項

1. 試験監督者の指示があるまで、問題冊子を開かないこと。
2. 問題冊子に落丁、乱丁があった場合は、試験監督者に申し出ること。
3. 試験監督者の指示に従って、解答用紙の受験番号欄に受験番号を記入し、その下のマーク欄にもマークすること。
4. 受験番号が正しくマークされていない場合は、採点できないことがある。
5. マーク方式の解答方法は、下の『解答上の注意』をよく読むこと。
6. 試験終了後、問題冊子は持ち帰ること。

解 答 上 の 注 意

マーク方式での解答例

〔英語〕 解答群より、③をマークするときは、次の〔例〕のように解答欄の③にマークする。

〔例〕

1	①	②	●	④	⑤	⑥	⑦	⑧	⑨	⑩
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英 語

I. 以下の英文を読み、問A・問Bに答えよ（なお、*印を付した語句には注がある）。

Call it the seafood of life: Shells* discarded by diners* are being collected, cleaned and dumped into waterways around the country and the world, where they form the basis of new oyster* colonies.

One of the latest such projects is taking in Atlantic City*, where a casino and two other restaurants are saving the shells left over from their diners. The shells are then collected by the state Department of Environmental Protection, and workers and volunteers with Rutgers and Stockton universities and the Jetty Rock Foundation load them on barges* and dump them into the Mullica River.

That waterway is home to one of the last self-sustaining oyster populations on the Atlantic coast, Shawn LaTourette, the state's environmental commissioner*. The clam, oyster and other shells form the basis of new or expanded oyster colonies when free-floating baby oysters, known as spat, attach to the shells and begin to grow on them.

“You have the benefit not only of ecological restoration, but it has kept 65 tons of shells out of landfills*,” said Scott Stueber, a fisheries biologist with the DEP. That helps the eateries* save on waste disposal costs.

The program began in 2019 and currently collects oysters from the Hard Rock casino, the Knife & Fork restaurant and Dock's Oyster House in Atlantic City. Several other casinos have expressed interest in joining.

“We go through a ton of these shells at our restaurants,” said Grace Chow, Hard Rock's vice president of food and beverages. “The buffet* on a slow day will shuck* 500 oysters, and on a busy day, 1,200.”

Oysters are nature's filters: a single adult oyster can strain particles and contaminants* from 50 gallons* of water a day. improving water quality, oyster colonies also are being planted along coastlines as a shore stabilization and storm mitigation strategy: the bumpy underwater colonies can act as speed bumps* for destructive waves headed for the shoreline, dissipating some of their energy.

The goal is not so much to create new places to harvest and sell oysters for consumption as to improve the environment.

In New Jersey, oysters can be harvested for commercial use in Delaware Bay, and the state has a robust aquaculture industry that grows them. The Mullica River project aims to grow oysters for ecological purposes, but it is being studied for possible approval as a commercial harvesting site in the future, the DEP said.

For the Atlantic City project, the state makes the rounds of the eateries once a week with a trailer, hauling the shells to a research station on Nacote Creek in Port Republic. There they are set out* to dry for at least six months so that any remaining meat or foreign substances on the shells will bake off.

When they have cured*, the shells are loaded onto a barge and pulled out into the Mullica River. Workers aboard the barge use high-pressure hoses to blast* the 10-foot-tall piles of shells into the water, accomplishing in less than an hour what would take many times as long if they were shoveled overboard*.

About 3,000 bushels* of shells will be placed in the river this year. Russ Babb, a shell fisheries bureau chief with the DEP, hopes to eventually increase that amount to 10,000 bushels a year.

(出典：Wayne Perry, “Diners’ discarded shells help establish new oyster colonies,” AP News, July 3, 2021, adapted 一部改変
https://apnews.com/article/environment-and-nature-business-a0b29f2d113ffa9326f7505422c891f3)

注：shell 貝殻 diner 食堂の客 oyster カキ
Atlantic City 米国New Jersey州の観光都市 barge 平底船
commissioner 監督官 landfill 埋立地 eatery / buffet 食堂
shuck 殻をむく contaminant 汚染物質 gallon 液量単位
speed bump (速度抑止用の)道路こぶ set out 並べる cure 乾く
blast 吹き飛ばす overboard 船外に bushel 容量単位

問A. 文中の ~ に入れるのもっとも適当なものを, ①~④の中から選び, 解答欄にマークせよ。

- | | | | | |
|--------------------------------|----------------|------------------|-----------------|------------------|
| <input type="text" value="1"/> | ① circle | ② network | ③ battle | ④ square |
| <input type="text" value="2"/> | ① time | ② way | ③ spot | ④ place |
| <input type="text" value="3"/> | ① in charge of | ② as a result of | ③ according to | ④ independent of |
| <input type="text" value="4"/> | ① Contrary to | ② In addition to | ③ Compared with | ④ In spite of |
| <input type="text" value="5"/> | ① partly | ② deficiently | ③ sufficiently | ④ insufficiently |

問B. 6.~15. の各文が本文の内容に合っていれば解答欄の①にマークし, 合っていなければ解答欄の②にマークせよ。

6. The Mullica River is the only waterway on the Atlantic Coast that has a self-sustaining oyster population.
7. Recycling oyster shells costs less than just throwing them away.
8. The Atlantic City program now collects oysters from three places, and perhaps more in the future.
9. On a busy day, the Hard Rock’s buffet serves more than double the number of oysters served on a slow day.
10. Oysters can clean up water and protect land from strong waves.
11. Destructive waves can take away some of the energy from oysters along coastlines.
12. Oysters in Delaware Bay are harvested to be eaten, while those in the Mullica River are not, at least for now.
13. In the Atlantic City project, oyster shells from restaurants are set out to dry until they do not contain any substances from foreign countries.
14. Workers aboard the barge on the Mullica River would prefer to shovel shells overboard, for that would save a lot of time.
15. In the near future, the amount of oyster shells to be placed in the Mullica River will be increased to 13,000 bushels in a year.

II. 次の1.～5.の日本語の意味の英文を、書き出しの語句に続けて下にある語句を並べかえて作るとした場合、に入れるべきものはどれか。解答欄にマークせよ。

1. 月に一度のエラーなら十分許容範囲内だ。

One error _____ 16 _____ 17 _____ range.
① within ② a ③ is ④ well ⑤ permissible ⑥ in a month

2. 彼が他人には秘密にしている事情を私は知っていた。

I _____ 18 _____ 19 _____ from others.
① that ② the circumstances ③ kept ④ he ⑤ knew ⑥ secret

3. 昼食に何を食べるか考えていた。

I _____ 20 _____ 21 _____ lunch.
① eat ② for ③ to ④ wondering ⑤ what ⑥ was

4. 良い睡眠は人を仕事でより生産的にする。

A good _____ 22 _____ 23 _____ work.
① makes ② productive ③ people ④ at ⑤ more ⑥ sleep

5. 鼻歌を歌っている自分に気がついて驚いた。

I _____ 24 _____ 25 _____ .
① find ② was ③ humming ④ to ⑤ myself ⑥ surprised

III. 次の1.～5.の英文の意味が通じるためには、の中にどのような語を入れたらよいか。下の語群から選び、解答欄にマークせよ。

1. A heart is quite often used as a symbol 26 love.

2. The young couple has recently moved 27 our neighborhood.

3. Please return the book 28 Friday.

4. He tends to look down 29 other people.

5. She went to the window, 30 a coffee in her hand.

[語群 : ① on ② into ③ at ④ by ⑤ with ⑥ of]

IV. 1. ~ 5. の英文の説明に該当する英単語を下の語群 [① ~ ⑩] から選び、解答欄にマークせよ。

1. the highest point of a mountain

=

2. a very precious and valuable object

=

3. a place where things are sold, bought, or exchanged

=

4. a group of people working for a company or school

=

5. something which things or people do not have in common

=

[語群 : ① factory ② difficulty ③ volcano ④ treasure
 ⑤ member ⑥ market ⑦ summit ⑧ staff
 ⑨ difference ⑩ pleasure]

V. 36. ~ 40. の英単語の一番強く発音する箇所はどこか。解答欄にマークせよ。

36. vol · un · teer
 ① ② ③

37. mu · se · um
 ① ② ③

38. mi · nor · i · ty
 ① ② ③ ④

39. cen · ti · me · ter
 ① ② ③ ④

40. rep · re · sent · a · tive
 ① ② ③ ④ ⑤