

1. 次の英文を読み、それに続く設問 A-1 から A-5 までに答えなさい。解答は、それぞれの設問に続く選択肢 1. から 3. までの中から答えとして最も適切なものを一つずつ選び、その番号のマーク欄を塗りつぶしなさい。

A large mass of granite has been found on the seabed off the coast of Rio de Janeiro, suggesting a continent may have existed in the Atlantic Ocean, the Japan Agency for Marine-Earth Science and Technology and the Brazilian government announced.

A Brazilian official said the discovery of the granite - which normally forms only on dry land - is strong evidence that a continent used to exist in the area where the legendary island of Atlantis, mentioned in antiquity by Plato in his philosophical dialogues, was supposedly located.

According to legend, the island with a highly developed civilization sank into the sea around 12,000 years ago. No trace of it has ever been found. The finding was made using the Shinkai 6500 manned submersible operated by the Japanese agency.

It is the first time such research using a manned submersible has been conducted in the South Atlantic. In late April, the agency used the device to explore the Rio Grande Rise, a seabed more than 1,000 km southeast of Rio de Janeiro. At a depth of 910 meters, it found a rock cliff around 10 meters in height and breadth.

After analyzing video data, the agency concluded it was granite. Also discovered in the area around it was a large volume of quartz sand - which is also not formed in the sea. The bedrock is believed to consist mainly of basalt.

According to the agency, the Rio Grande Rise is realistically the only area that could have been dry land in the past. Despite the latest discovery, however, experts remained cautious about jumping to conclusions about Atlantis.

<注> granite ^{かこう}花崗岩 seabed 海底 antiquity 古代 submersible 潜水艇 quartz 石英 bedrock 岩盤 basalt ^{げんぶ}玄武岩

(設問)

A-1 How did a Brazilian official come to believe that the discovery of granite may lead to the evidence of the existence of Atlantis?

1. The official knows that granite normally forms only on dry land.
2. The official knows that granite cannot be found on land.
3. The official knows that the existence of Atlantis has nothing to do with granite.

A-2 How did Plato describe Atlantis?

1. It flourished in the era of Plato.
2. It was a legendary island with a very advanced civilization.
3. It was an imaginary continent the old Brazilian created in the Atlantic Ocean.

A-3 How did the Japanese agency explore the Atlantic Ocean?

1. They explored by using the Shinkai 6500 with nobody aboard.
2. They used radar to discover something new about Atlantis.
3. They used the Shinkai 6500 manned submersible.

A-4 What does the agency say about the Rio Grande Rise?

1. It is bedrock which lies near the coast of Atlantis.
2. It is a seabed which could possibly have been dry land in the past.
3. It is a rock cliff around 10 meters in height and breadth which sticks out from the sea surface.

A-5 Which statement is true about the article?

1. Experts are still wondering about Atlantis.
2. The researchers don't believe that it could be Atlantis.
3. The Brazilian agency made the discovery of the continent only by chance when sailing in the area.

2. 次の英文 A-6 から A-9 までは、海上移動業務に関する国際文書の規定の趣旨に沿って述べたものである。この英文を読み、それに続く設問に答えなさい。解答は、それぞれの設問に続く選択肢 1. から 3. までの中から答えとして最も適切なものを一つずつ選び、その番号のマーク欄を塗りつぶしなさい。

A-6 When it is necessary for a ship station to send signals for testing or adjustments which are liable to interfere with the working of neighboring coast stations, the consent of these stations shall be obtained before such signals are sent.

(設問) In which of these cases is a ship station required to send signals with the consent of the nearby coast stations in advance?

1. When it sends any signal to the coast stations.
2. When it sends test or adjustment signals which are requested by the coast stations.
3. When it sends test or adjustment signals which are likely to cause interference to the coast stations' communications.

A-7 Stations on board aircraft may communicate with stations of the maritime mobile services. For this purpose, stations on board aircraft should use the frequencies allocated to the maritime mobile services.

(設問) What frequencies should stations on board aircraft use when they have communications with stations of the maritime mobile services?

1. They should use the frequencies for the maritime mobile services.
2. They should use the frequencies for the maritime mobile services and aircraft alternately.
3. They should use the frequencies which are allocated to aircraft.

A-8 Every radio installation shall be protected against harmful effects of water, extremes of temperature and other adverse environmental conditions.

<注> adverse 有害な

(設問) What must the radio installation be kept safe from?

1. From such conditions as very high or low temperatures and rain.
2. From changes in environmental conditions during navigation in dangerous waters.
3. From the effects of swift currents, drift ice, etc.

A-9 When a ship station is called on the carrier frequency 2182 kHz, it should reply on the same carrier frequency unless another frequency is indicated by the calling station.

(設問) What should a ship station do when it is called on the carrier frequency 2182 kHz?

1. It should always reply on a different frequency from 2182 kHz.
2. It should reply on the frequency 2182 kHz when the calling station does not specify another frequency.
3. It should reply on the frequency 2182 kHz even when the calling station indicates another frequency.

3. 次の設問 B-1 の日本文に対応する英訳文の空欄（ア）から（オ）までに入る最も適切な語句を、その設問に続く選択肢 1. から 9. までの中からそれぞれ一つずつ選びなさい。解答は、選んだ選択肢の番号のマーク欄を塗りつぶしなさい。

（設問）

B-1 イギリスでのナローボートの旅は、私にとって素晴らしいものであった。ボートは、何マイルも続く美しい田園を貫流する運河をゆっくりと進み、好きなところで、乗り降りすることができた。水位を変える水門も大変興味深いものであった。

The narrowboat trip in England was (ア) for me. The boat proceeded slowly along the canals which (イ) through miles of beautiful countryside and it allowed me to get on and (ウ) (エ) I wanted. I was (オ) by the lock gates for changing the water level.

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|---------------|--------------|---------------|
| 1. fall | 2. fantastic | 3. fascinated |
| 4. off | 5. practical | 6. run |
| 7. stimulated | 8. up | 9. whenever |

4. 次の設問 B-2 の日本文に対応する英訳文の空欄（ア）から（オ）までに入る最も適切な語句を、その設問に続く選択肢 1. から 9. までの中からそれぞれ一つずつ選びなさい。解答は、選んだ選択肢の番号のマーク欄を塗りつぶしなさい。

（設問）

B-2 親潮と黒潮は、三陸沖から東北北海道沖でぶつかり、はっきりした潮目をつくっている。この潮目は、古くから、滋養に満ちた多くの種類の海洋生物がすむ良好な漁場となっている。

The Oyashio Current (ア) with the Kuroshio (イ) from the Sanriku coast to Eastern Hokkaido, (ウ) a well-defined sea border. This border has long produced good fishing (エ) rich in nutrients for many (オ) of sea life.

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|-------------|-------------|---------------|
| 1. collides | 2. combines | 3. consulting |
| 4. creating | 5. grounds | 6. kinds |
| 7. nets | 8. numbers | 9. offshore |

5. 次の設問 B-3 の日本文に対応する英訳文の空欄（ア）から（オ）までに入る最も適切な語句を、その設問に続く選択肢 1. から 9. までの中からそれぞれ一つずつ選びなさい。解答は、選んだ選択肢の番号のマーク欄を塗りつぶしなさい。

（設問）

B-3 船長、職員及び部員は、船舶の運航又は船舶の事故による海洋環境汚染の重大な影響について了知していなければならない。特に関連する国際規則及び港湾規則の範囲内で、このような汚染を防止するためのすべての可能な措置をとらなければならない。

The master, officers and ratings shall be aware (ア) the serious effects of operational or accidental (イ) of the marine environment and shall (ウ) all possible precautions (エ) prevent such pollution, (オ) within the framework of relevant international and port regulations.

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|-------------|-----------------|--------------|
| 1. illusion | 2. make | 3. mostly |
| 4. of | 5. particularly | 6. pollution |
| 7. take | 8. to | 9. worthy |