

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黒く塗りつぶしなさい。

Two federal environmental agencies issued plans Thursday to better protect endangered whales amid offshore wind farm development, just as two offshore wind farm developers announced they were swapping projects. The U.S. Bureau of Ocean Energy Management and NOAA released final plans to protect endangered North American right whales, of which there are only about 360 left in the world. The agencies said they are trying to find ways to better protect the whales amid a surge of offshore wind farm projects, particularly on the U.S. East Coast. They plan to look for ways to mitigate any potential adverse impacts of offshore wind projects on the whales and their habitat. The strategy will use artificial intelligence and passive acoustic monitoring to determine where the whales are at a given time and to monitor the impacts of wind development on the animals. It also calls for avoiding the granting of offshore wind leases in areas where major impacts to right whales may occur; establishing noise limits during construction; supporting research to develop new harm minimization technologies; and making it a priority to develop quieter technology and operating methods for offshore wind development.

Although opponents of offshore wind projects blame them for a spate of whale deaths over the past 13 months on the East Coast, the agencies said climate change is the biggest threat to the right whales. They and other scientific agencies say there is no evidence that offshore wind farm preparation work is harming or killing whales. Many whales have been struck by ships or become entangled in fishing gear.

Of the 360 right whales left in the ocean, only 70 are reproductively active females. "Climate change is affecting every aspect of right whales' survival, changing their ocean habitat, their migratory patterns, the location and availability of their prey, and even their risk of becoming entangled in fishing gear or being struck by vessels," the agencies said in a statement. In a separate report issued Monday, NOAA said there were 67 confirmed entanglements of large whales nationwide in 2022, the most recent year for which statistics are available. That is down slightly from the previous year and below the annual average of 71, the agency said. In addition to vessel strikes and entanglement in fishing gear, which are the primary causes of death or injury to right whales, low female survival, a male-dominated sex ratio, and low calving rates are also contributing to the population's current decline. The species also has low genetic diversity due to its small size, the agencies said.

<注> NOAA(National Oceanic and Atmospheric Administration) 米国海洋大気庁 right whale セミクジラ
mitigate 和らげる minimization 最小化 a spate of 相次ぐ migratory 回遊の
statistics 統計 calving rate 出産率

(設問)

- A-1** What did the offshore wind farm developers announce just as the federal environmental agencies were issuing new plans to protect North American right whales?
1. They were going to exchange development projects with each other.
 2. They were going to introduce AI and other new equipment to better protect the North American right whales.
 3. They were going to cooperate with the environment agency to mitigate the wind farms' adverse impact on the whales.
- A-2** Why are the federal agencies so eager to protect the whales from offshore wind farm development?
1. There is a risk that some industries, including wind power companies, may hunt the whales.
 2. As wind power generation is very important for combatting climate change, it needs to be protected from its opponents.
 3. The total number of the whales is very small, and there has recently been a rapid increase in the number of wind farms projects.
- A-3** Which one of the following is included among the strategies that the agencies are calling for?
1. The promotion of noises which are attractive to whales
 2. The halting of grants for offshore wind leases in areas where whales are found
 3. Less frequent monitoring of the whales as this is intrusive to their breeding rituals
- A-4** According to the above article, what are the primary causes of death or injury for right whales?
1. The whales are being caught because their meat and oil are valuable.
 2. The building of wind power generation plants in the sea is the sole issue.
 3. The whales are being struck by vessels or entangled in fishing gear, such as fishing nets.
- A-5** Which of these do the agencies further specify as causes of the decline of the right whale population?
1. The overbreeding of whales which leads to more calves than can be cared for
 2. An unbalanced sex ratio, low female survival, and the whales' low birth rate
 3. There are no other causes beyond the problems of fishing gear and ship collisions.

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文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黒く塗りつぶしなさい。

A-6 The service of a ship station is placed under the supreme authority of the master or of the person responsible for the ship or other vessel carrying the station. The person holding this authority shall require that each operator comply with the Radio Regulations and that the ship station for which the operator is responsible is used, at all times, in accordance with the Radio Regulations.

(設問) According to the above regulation, who should enforce the Radio Regulations at a ship station?

1. The master or the person with ultimate responsibility for the vessel should do so.
2. Except in distress situations, the master of the ship is always responsible for enforcing the Radio Regulations.
3. The radio operator who is responsible for distress communications must make the crew comply with the Radio Regulations when they use the equipment of the ship station.

A-7 The selection or designation of on-scene frequencies is the responsibility of the unit coordinating search and rescue operations. Normally, once an on-scene frequency is established, a continuous aural or teleprinter watch is maintained by all participating on-scene mobile units on the selected frequency.

(設問) What responsibility does the above regulation impose on the on-scene search and rescue coordinating unit?

1. To ensure that all participating units watch continuously via radio telephony or teleprinter
2. To assign a single frequency to each participating mobile unit for its own communications
3. To select or designate on-scene frequencies and communicate them to all participating units

A-8 The rescue coordination center coordinating distress traffic, the unit coordinating search and rescue operations or the coast station involved may impose silence on stations which interfere with that traffic. This instruction shall be addressed to all stations or to one station only, according to circumstances.

(設問) According to the above regulation, in what situation might the rescue coordination center enforce silence on a radio station?

1. If a radio station is causing interference to the distress traffic
2. When a mobile station is selected as a search and rescue coordinating unit
3. When one radio station is causing interference to all kinds of radio communications

A-9 Operational tests of shipboard navigational equipment shall be carried out at sea as frequently as practicable and as circumstances permit, in particular before hazardous conditions affecting navigation are expected. Whenever appropriate, these tests shall be recorded. Such tests shall also be carried out prior to port arrival and departure.

(設問) Which of the following circumstances particularly require operational tests of onboard navigational equipment?

1. The tests must be carried out prior to port arrival and departure only in adverse weather conditions.
2. The tests must be conducted as often as possible, especially before arrival at and departure from the port and when adverse weather conditions are expected.
3. The tests must be conducted only when hazardous weather conditions are forecast while the ship is at sea.

3. 次の設問B-1の日本語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10.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黒く塗りつぶしなさい。

（設問）

B-1 日本の海運大手3社のコンテナ船事業を統合するオーシャンネットワークエクスプレス社（ONE）は、日本で建造されたコンテナ船「ONE Infinity」がコンテナ輸送量22,206 TEUというコンテナ輸送量の記録を達成したと発表した。TEU（20フィート相当単位）とは、20フィートコンテナの貨物積載量に相当する単位だ。「ONE Infinity」は巨大で、戦艦大和よりはるかに大きい。

Ocean Network Express (ONE), which (ア) the containership businesses of three Japanese big shipping companies, (イ) that the container ship "ONE Infinity" built in Japan has (ウ) a record of 22,206 TEUs of containers. TEU (Twenty-foot Equivalent Unit) is a unit equivalent to the cargo (エ) of a 20-foot container. "ONE Infinity" is (オ) and much larger than the battleship Yamato.

- | | | | |
|---------------|---------------|--------------|---------------|
| 1. achieved | 2. advertised | 3. announced | 4. capability |
| 5. capacity | 6. emigrates | 7. extensive | 8. gigantic |
| 9. integrates | 10. missed | | |

4. 次の設問B-2の日本語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10.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黒く塗りつぶしなさい。

（設問）

B-2 日本の大手海運会社が「ウィンドハンター」と名付けられたグリーン水素生産船を開発している。流線型の奇妙な形をした船体で、甲板には巨大な「帆」が付いている。海上で吹く風を利用してCO₂を排出せずにグリーン水素を製造し、船に貯蔵して陸まで輸送する。それは洋上風力発電と水素製造設備を組み合わせたハイブリッド施設と言ってもよいものである。

A major shipping company in Japan is developing a green hydrogen production vessel (ア) "Wind Hunter". It has a (イ), oddly shaped hull with a huge "sail" on the deck. It uses the wind blowing at sea to produce green hydrogen without (ウ) CO₂, (エ) it onboard the ship, and transports it to land. It can be said to be a hybrid plant that (オ) offshore wind power generation with hydrogen production facilities.

- | | | | |
|-------------|-----------------|--------------|----------|
| 1. combines | 2. detaches | 3. emitting | 4. named |
| 5. naming | 6. omitting | 7. pipelined | 8. shops |
| 9. stores | 10. streamlined | | |

5. 次の設問B-3の日本語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10.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黒く塗りつぶしなさい。

（設問）

B-3 航行の安全のために要求されるVHF無線電話のチャネルの制御装置は、操舵を指揮する場所で使いやすい船橋上にて直ちに使用することができるようにしておくものとし、また、必要な場合には、船橋の両翼から無線通信を行うことを可能にする設備を設けることとする。後者の規定を満たすために、持ち運び式VHF機器を使用してもよい。

Control of the VHF radiotelephone channels (ア) for navigational safety shall be (イ) available on the navigation bridge (ウ) to the conning position and, (エ) necessary, facilities should be available to permit radiocommunications from the wings of the navigation bridge. Portable VHF equipment may be used to meet the latter (オ).

- | | | | |
|---------------|-----------------|----------------|----------------|
| 1. convenient | 2. conventional | 3. how | 4. immediately |
| 5. moderately | 6. ordered | 7. preposition | 8. provision |
| 9. required | 10. where | | |