

XRA 103
YRA 103
ZRA 103

第一級海上無線通信士
第二級海上無線通信士
第三級海上無線通信士

「英語」試験問題

5問 1時間30分

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。

From a distance, the northern shores of Baffin Island in the Arctic appear barren. This is a craggy world of snow-capped peaks and glaciers surrounded by a sea of floating ice even in the midst of summer. Yet beneath the forbidding surface of the world's fifth largest island lies an exceptionally pure strain of iron ore, and the Baffinland Iron Mine is believed to hold enough of it to feed smelters for decades. As climate change pushes the ice a little farther north each year, there is increasing talk of a new gold rush in the remote Arctic for abundant natural resources, prized shipping routes and business opportunities in tourism and fishing.

A group of journalists took a first-hand look at the region on a month-long, 10,000-kilometer journey aboard the Finnish icebreaker MSV Nordica, along with researchers specializing in Arctic development. "As the world demand for raw materials is ever increasing, and with a realization that a large part of the unexplored deposits are in the Arctic, there is a natural shift to focus on that area," said Mads Boye Peterson, head of Denmark's Nordic Bulk Carriers Shipping. Peterson's company sent a freighter through the Northwest Passage between the Atlantic and the Pacific four years ago to show the route can be used to haul cargo in summer. However, he also noted that rising temperatures make operations harder because moving floes are less predictable than unbroken sheets of ice. "On the surface it might look like a slam dunk," he said. "But it's actually a lot more complicated than just something you decide to do overnight."

The U.S. Geological Survey has estimated that up to 30 percent of the world's undiscovered gas and 13 percent of its undiscovered oil are inside the Arctic Circle. Precious minerals also slumber beneath the icy surface, along with the rare earth elements lithium and cobalt, used in batteries for electric cars and handheld devices, said Morten Smelror, director of the Geological Survey of Norway. "The Arctic is certainly among the last frontiers with respect to undiscovered mineral resources, along with the deep oceans," said Smelror. The geography also opens up new opportunities. Sailing through the Northwest Passage could potentially cut the distance from East Asia to Western Europe by more than 10,000 kilometers compared with the traditional route through the Panama Canal, offering huge fuel savings.

<注> craggy 岩の多い smelter 精錬所 freighter 貨物船 floe 浮氷 slam dunk 必ず成功できること

(設問)

A-1 What do we know about the climate of Baffin Island?

1. The northern part of the island is still frozen even in summer.
2. The mild climate means the island holds enough food to last several decades.
3. The area around the northern shores of the island is becoming colder in summer.

A-2 What has been one of the effects of climate change on the island?

1. Rising temperatures have caused the ice to decrease.
2. There has been a huge increase in the amount of ice around the island.
3. As a result of climate change, large deposits of gold have formed on the island.

A-3 According to the article what is the main reason for increased interest in the Arctic region in recent years?

1. The fishing opportunities are attracting more tourists.
2. The waters around the Arctic contain vast, rich fishing grounds.
3. It is the knowledge that there are huge deposits of valuable raw materials in the Arctic.

A-4 What does the head of the Danish shipping company say about the sailing through the Northwest Passage in summer?

1. He says that it is surprisingly easy to negotiate the surface.
2. He says that this is a difficult task that requires a lot of planning.
3. It is becoming easier to travel through the Northwest Passage because almost all of the ice is melting.

A-5 According to the article, what is one of the great advantages of the Northwest Passage?

1. This route would offer huge fuel savings to shipping companies.
2. The Northwest Passage would allow ships to sail at much higher speeds than traditional shipping routes.
3. This easier route through deeper waters has opened up new business opportunities for the shipping industry.

2. 次の英文A-6からA-9までは、無線通信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 Radiotelephone frequencies should be designated in terms of the carrier frequency; NBDP and DSC frequencies should be designated in terms of the assigned (center) frequency. The selected receiver frequency should be clearly identifiable on the control panel of the equipment.

(設問) In the case of voice transmissions over radio links, how are the frequencies to be specified?

1. For voice signal transmission, the carrier frequency is used as the means of designation.
2. Voice transmission frequencies should always be designated in terms of the center frequency for any kind of modulation.
3. The control panel of the receiver shows the designated voice transmission frequency because it always assumes voice signals are being received.

A-7 Every candidate for certification as officer in charge of a navigational watch on ships of 500 gross tonnage or more shall, if designated to have primary responsibility for radiocommunications during distress incidents, hold an appropriate certificate issued or recognized under the provisions of the Radio Regulations.

(設問) For whom does the above code require the holding of an appropriate certificate issued or recognized under the provisions of the Radio Regulations?

1. All personnel on board must be certified for a radio watch under the provisions of the Radio Regulations.
2. Every member of a vessel's crew is required to have the appropriate certificates for assuming the primary responsibility for distress radiocommunications.
3. The specified officer in charge of operating radio equipment during distress incidents must have the appropriate certification in accordance with the Radio Regulations.

A-8 Manufacturers, suppliers and installers should ensure that when any GMDSS equipment has been installed, the necessary instructions are given to ship personnel, drawing specific attention to operational procedures. A record should be kept that such instructions have been given.

(設問) What are providers of GMDSS equipment required to make available after installation?

1. Providers must give instructions on how to use any GMDSS equipment.
2. Ships must be provided with drawings illustrating how to install the GMDSS equipment.
3. Providers are required to keep a record of when the equipment is used by ship personnel.

A-9 The equipment for the reception of NAVTEX should contain one receiver operating on the frequency prescribed by the Radio Regulations for the International NAVTEX System. The equipment should contain a second receiver capable of working at the same time as the first one on at least two other frequencies recognized for the transmission of NAVTEX information.

(設問) How many receivers are required for NAVTEX receiving equipment?

1. The equipment should have only a single receiver operating on a single frequency.
2. The equipment is required to have one receiver operating on an authorized frequency plus a second receiver which can work at the same time on other frequencies.
3. The equipment is required to have an emergency backup capable of transmitting on two frequencies in addition to the authorized frequency.

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 形象物は、昼間時に航行中、錨泊中又は座礁中というような船舶の状態を示すため、マストの先に掲げられる信号である。それらは黒色で球体、円筒形、円錐形、ひし形という単純な形を集めたものからなっており、関連する規則により日の出から日の入りまで掲揚しておくことが要求されている。夜間には、それらに対応する航行用灯火の使用が要求されている。

Day shapes are the mast head signals which show the vessel's (ア) during (イ) hours, such as making-way, anchored, or (ウ). They are black and consist of a set of simple shapes, namely, the balls, cylinders, (エ) and diamonds, and are required to be kept raised from sunrise to sunset by relevant regulations. The (オ) navigation lights are required at night.

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| 1. aground | 2. capsized | 3. cones | 4. corresponding |
| 5. cubes | 6. daylight | 7. individual | 8. ranking |
| 9. status | 10. working | | |

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 日本政府は西日本の海岸沖にある世界最北のサンゴ礁の調査を昨年冬に行い、広範囲にわたるサンゴの白化を発見した。異常に温暖な海水温が沖縄でサンゴを白化させたのとは反対に、その荒廃は大変強い寒冷前線だけではなく、黒潮の流れの変化がもたらした異常に冷たい海水温の結果であると考えられている。

The Japanese government (ア) the world's most northerly coral reefs, which (イ) off the coast of western Japan, last winter, and found widespread coral bleaching. Contrary to the coral bleaching caused by unusual warming of water temperatures in Okinawa, the (ウ) is thought to be the result of unusually cold water temperatures in the area due to (エ) in the Kuroshio Current as well as the very strong cold (オ).

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|----------------|--------------|-----------------|---------------|
| 1. devastation | 2. flooding | 3. fluctuations | 4. fronts |
| 5. lays | 6. lie | 7. lines | 8. looked for |
| 9. roughness | 10. surveyed | | |

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 GMDSSの下での無線通信士の資格証明を得ようとする者は、船舶及び乗船している者の安全及び海洋環境の保護に関する英語による文が、確実に取り扱えるための能力基準を達成していることを証明しなければならない。

Every candidate for certification as GMDSS radio operator shall provide (ア) of having (イ) the required standard of competence for (ウ) English language messages (エ) the safety of the ship and persons on board and protection of the marine (オ) can be correctly handled.

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|-------------|------------------|----------------|----------------|
| 1. achieved | 2. circumstances | 3. confidence | 4. environment |
| 5. evidence | 6. regardless of | 7. relevant to | 8. studied |
| 9. where | 10. which | | |