

第二級総合無線通信士「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。

A livestream of deep-sea life in the South Atlantic has Argentines hooked. The researchers behind this remotely operated vehicle filming life-forms 4,000 meters undersea told on Monday that they never expected their deep-sea expedition to become such a social media sensation. Outfitted with high-definition (HD) cameras and state-of-the-art sensors, the roving robot captures the enigmatic organisms of Mar de Plata's submarine canyon with exceptional clarity and detail for the first time.

The region, where the warm current from Brazil meets the cold current coming up from the Falkland Islands, is known for its little-studied biodiversity. Argentine researchers and American experts from the nonprofit Schmidt Ocean Institute Foundation, use the vehicle to map the underwater trench, collect samples and identify scores of new species at a depth below the reach of sunlight, where scientists have only begun to scratch the surface when it comes to understanding marine life. The video feed has attracted more than 1.6 million views a day on YouTube, dominated TV news broadcasts and even sparked a national conversation about the defunding of Argentine science. Often peaking at some 50,000 simultaneous viewers, the livestream from the deep-sea research vessel kicked off last week and runs until August 10.

President Milei has taken his bureaucracy-slashing chainsaw to Argentine research projects and grants, curbing science spending as a part of a broader drive to eliminate Argentina's chronic fiscal deficit and bring down inflation. State-backed science organizations have lost 4,000 positions in the last year and a half, resulting from a combination of layoffs, frozen contracts and resignations.

Argentina's crude oil and natural gas production is rapidly increasing, primarily driven by output from the Vaca Muerta shale formation. President Milei hopes this oil boom can help revive the nation's crisis-stricken economy. Alejandro Álvarez, a government official, says that perhaps they should also livestream an offshore drilling operation.

<注> life-form 生物 state-of-the-art 最先端の roving robot 移動ロボット enigmatic 謎の
 clarity 明瞭 biodiversity 生物多様性 underwater trench 海溝 scores of 数十の
 defund 出資を取り消す bureaucracy-slashing 官僚主義を一掃する drive 活動
 chronic 慢性的な deficit 赤字 resignation 辞職 shale formation シェール層

(設問)

A-1 What does the article say about the video quality of the livestream of the Mar de Plata underwater canyon?

1. Using advanced sensors and HD cameras, the quality of the livestream is extremely clear.
2. As the camera is set on a roving robot, the image is difficult to see because it shakes a lot.
3. It maybe good for first time shooting but from the ordinary livestream point of view the quality is poor.

A-2 What are the Argentine researchers and American experts using the roving robot for?

1. To map the submarine canyon and shoot pictures of deep-sea creatures not yet identified
2. To observe the status of ocean currents in the region where cold and warm currents meet
3. To check the hardness of the sea floor to know whether it can easily be drilled for crude oil

A-3 What does the above article say about the sensational livestream?

1. It has been viewed more than 50,000 times a day, totalling 1.6 million views by August 10.
2. It has been viewed more than 1,600,000 times a day, often with some 50,000 viewers at a time.
3. It has been viewed more than 50,000 times a day, often with 4 thousand views at a single time.

A-4 Why is President Milei slashing science spending?

1. The livestream is pressuring him to increase science funding.
2. He thinks the science boom is just temporary and the spending should be saved for future studies.
3. He is doing so as a part of government spending cuts to end the chronic fiscal deficit and curb inflation.

A-5 What kind of livestream does Mr. Álvarez suggest might be more significant for Argentina than that of the Mar de Plata underwater canyon?

1. President Milei's speech on how his financial strategy will boost the country's economy
2. A scientific program to discover the locations of crude oil in the Vaca Muerta shale formation
3. The offshore drilling for crude oil, which the president hopes will help the country's economy to recover

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 Messages accepted for transmission should be transmitted in plain language or ICAO phraseologies without altering the sense of the message in any way.

(設問) When you paraphrase a message using plain language or ICAO phraseologies, what should you bear in mind?

1. The core sentence should not be changed even it includes difficult words.
2. The original meaning should be preserved so as not to distort the information conveyed.
3. ICAO phraseologies should be used as much as possible as they simplify the language even when the meaning of the sentence is altered.

A-7 Ship-to-ship distress alerts are used to alert other ships in the vicinity of the ship in distress and are based on the use of digital selective calling in the VHF and MF bands. Additionally, the HF band may be used.

(設問) Which of the following correctly describes a ship-to-ship distress alert?

1. It is an alert which relies on digital communication technology via satellite mainly to notify other vessels far from the ship in distress.
2. It is an alert which employs digital selective calling technology using mainly the VHF and MF bands to notify vessels near the ship in distress.
3. It is an alert which employs digital selective calling technology using the HF band mainly to notify other vessels far from the ship in distress.

A-8 Portable electrical and electronic equipment shall not be operated on the bridge if it may affect the proper function of navigational systems.

(設問) What conditional prohibition does the above regulation impose on the use of portable electrical and electronic devices on a ship's bridge?

1. They can be used freely until failures of the navigation systems have been observed.
2. They are totally banned so as to eliminate all potential risks, irrespective of their actual impact.
3. They must not be used if there is a possibility of affecting the performance of navigation systems.

A-9 The radio operator performing radio watchkeeping duties shall, while on duty, regularly check the operation of the radio equipment and its sources of energy and report to the master any observed failure of this equipment.

(設問) What ongoing obligations does the above code assign to the radio operator during watchkeeping, particularly in relation to equipment integrity and reporting to the master?

1. To check radio equipment and its power sources regularly and report any failure to the master
2. From time to time, to inspect the radio equipment and energy supplies, and notify the master of critical failures
3. To assign tests of the relevant equipment to other crew members and receive their reports of those test results so that failures may be notified to the master

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黒く塗りつぶしなさい。

（設問）

B-1 冬の北海道では、砕氷船クルーズが楽しめる。船首に2基の巨大なドリルを搭載した砕氷観光船は、力強く流氷を砕きながら進む。運が良ければ、流氷の上で休むアザラシや、オオワシ、オジロワシなどの野生動物を見つけられるかもしれない。

You can enjoy an icebreaker cruise in Hokkaido in winter. With two (ア) drills (イ) on its bow, the icebreaker sightseeing ship powerfully crushes through the drift ice as it (ウ). If you're lucky, you might (エ) wild animals such as seals (オ) on the drift ice, or Steller's sea eagles and white-tailed eagles.

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| 1. advances | 2. catch | 3. displayed |
| 4. massive | 5. mounted | 6. resting |
| 7. retreats | 8. sliding | 9. spot |

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黒く塗りつぶしなさい。

（設問）

B-2 日本の海運会社はその子会社と共同で、自動車運搬船の配船計画を自動化・最適化するAIによる船舶スケジューリングシステムを開発した。このシステムは、数ヶ月先までの数百万通りの潜在的な輸送スケジュールを評価した後、約10分で最適な計画を生成する。そのシステムの本格運用が7月に開始された。

A Japanese shipping company and its subsidiary have (ア) developed an AI-based ship scheduling system that (イ) and optimizes the allocation plan of car carriers. This system (ウ) an optimal plan within (エ) 10 minutes after evaluating millions of potential shipping schedules for several months ahead. Full-scale operation of the system was (オ) in July.

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| 1. accelerates | 2. approximately | 3. automates |
| 4. generates | 5. independently | 6. jointly |
| 7. launched | 8. precisely | 9. transforms |

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黒く塗りつぶしなさい。

（設問）

B-3 医療助言に関係する通信は、緊急信号を前置してよい。医療助言を求める移動局は、海岸局及び特別業務の局の局名録に掲載されている陸上局であればどこを通してでも、その医療助言を入手できる。

Communications (ア) medical advice may be (イ) by the (ウ) signal. Mobile stations (エ) medical advice may (オ) it through any of the land stations shown in the List of Coast Stations and Special Service Stations.

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| 1. concerned | 2. concerning | 3. contain |
| 4. obtain | 5. ordinary | 6. preceded |
| 7. proceeded | 8. requiring | 9. urgency |