

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。

Scientists and volunteers who have spent the last month gathering data on how much plastic garbage is floating in the Pacific Ocean returned to San Francisco on Sunday and said most of the trash they found consists of medium to large-sized pieces, as opposed to tiny ones.

Volunteer crews on 30 boats have been measuring the sizes and mapping the locations of tons of plastic waste floating between the West Coast and Hawaii.

"It was a good illustration of why it is such an urgent thing to clean up because if we don't clean it up soon then we'll give the big plastic time to break into smaller and smaller pieces," said Boyan Slat, who has developed a technique that he says can start removing the garbage by 2020.

The boats went on a 30-day voyage as part of the "Mega Expedition," a major step in an effort to eventually clean up what's known as the Great Pacific Garbage Patch. The expedition was sponsored by The Ocean Cleanup, an organization founded by Slat, a 21-year-old innovator from the Netherlands.

Slat said the group will publish a report of its findings by mid-2016 and after that they hope to test a 1-mile barrier to collect garbage near Japan. The ultimate goal is construction of a 60-mile (about 100-km) barrier in the middle of the Pacific.

He first became passionate about clearing the oceans of plastic while diving in the Mediterranean Sea five years ago. "I was diving in Greece and realized that there were more plastic bags than fish, and I wondered why can't we clean this up," Slat said.

<注> illustration 実例 the Great Pacific Garbage Patch 太平洋ゴミベルト innovator 革新者

(設問)

A-1 What information on the size of plastic garbage did scientists and volunteers obtain?

1. They found most of it is small.
2. They found it is mostly on the larger side.
3. They found they couldn't measure the sizes because most of the trash was too tiny.

A-2 Why does Boyan Slat think it so urgent to clean up the floating plastic waste now?

1. As time goes by, it will be broken down into smaller pieces.
2. If nothing is done to clean it up urgently, the quantity will grow smaller and smaller over time.
3. Because he wanted to provide a good illustration as urgently as possible.

A-3 Who supported the 30-day expedition?

1. The Netherlands
2. The Ocean Cleanup
3. The United States of America

A-4 What does the article say about Slat's final aim?

1. To publish a report of its findings by mid-2016.
2. To test a 1-mile barrier for collecting garbage in Japan.
3. To construct a 60-mile barrier in the middle of the Pacific Ocean.

A-5 What made Slat so enthusiastic about removing plastic waste from the ocean?

1. Because the Mediterranean Sea will be cleared of plastic in five years.
2. He thought the clean-up project would be a good business opportunity.
3. His observation that there were more plastic bags than fish in the Mediterranean Sea.

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 Aircraft, when conducting search and rescue operations, are permitted to operate digital selective calling (DSC) equipment on the VHF DSC frequency 156.525 MHz.

(設問) In what situations may aircraft use digital selective calling equipment on this frequency?

1. They may use it at any time so long as they choose the frequency.
2. They are allowed to use it in search and rescue operations.
3. They are permitted to operate it except in search and rescue operations.

A-7 Ship stations equipped with apparatus for digital selective-calling to work in the authorized bands between 156 MHz and 174 MHz should, while at sea, maintain an automatic digital selective-calling watch on the frequency 156.525 MHz.

(設問) What frequency should the ship stations use, while at sea, to keep an automatic digital selective-calling watch?

1. They should use the frequency 156.525 MHz.
2. They may use any frequency in the authorized bands between 156 MHz and 174 MHz.
3. They should use any frequency in the unauthorized bands between 156 MHz and 174 MHz.

A-8 Every life raft shall be provided with means to mount a survival craft radar transponder at a height of at least one meter above the sea.

<注> means 設備

(設問) How should a survival craft radar transponder be attached to a life raft?

1. It should be attached under the waves.
2. It should be attached within one meter of the sea.
3. It should be attached one meter or higher above the water.

A-9 On receiving a distress alert, the radio operator on watch should alert the master and, if appropriate, the radio operator designated as having primary responsibility for radiocommunications during distress incidents.

(設問) What should the radio operator on watch do on receiving a distress alert?

1. The operator should warn the master as well as the persons concerned with radiocommunications immediately during distress incidents.
2. The operator should warn the master and, if necessary, the person with the main responsibility for radiocommunications immediately during distress incidents.
3. The operator should warn the master or the person responsible for radiocommunications soon after the distress incidents are over.

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 あるアメリカのコンサルティング会社は、今後、自動運転の車が増加し、20年後には、自動運転の車数は、全体の4分の1になるだろうと予測している。運転免許証はその時もまだ必要なのだろうか。

An American consulting firm (ア) that the number of self-driving cars will now start to (イ) and a quarter of all cars will be self-driving (ウ) 20 years' time. One question may be (エ) we will still need a driving (オ).

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|--------|-------------|------------|
| 1. add | 2. as | 3. guides |
| 4. in | 5. increase | 6. license |
| 7. of | 8. predicts | 9. whether |

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 昨年発表されたある研究によると、世界の氷河は過去120年の観測史上、最も低いレベルまで減少していて、平均で毎年50から150センチの間で減少しているという。これは、地球温暖化によって引き起こされていると一般的に言われているが、この氷河の減少は、私たちの生活にどんな影響をもたらすのであろうか。

According to a study released last year, glaciers worldwide have (ア) to the lowest level in 120 years of record keeping and (イ) average are retreating by (ウ) 50 and 150 centimeters a year. This is often described as being caused by global (エ). How might this (オ) us in our own lives?

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|------------|------------|-----------|
| 1. affect | 2. between | 3. on |
| 4. result | 5. shrunk | 6. sunk |
| 7. warming | 8. with | 9. within |

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 航海当直を担当する職員は、当直の引き継ぎを受ける交代職員が任務を適切に遂行することができないと信ずる理由があるときは、当直の引き継ぎをしないものとし、この場合には、その旨を船長に通報しなければならない。

The officer (ア) charge of the navigational watch shall not (イ) over the watch to the relieving officer (ウ) there is reason to believe that the latter is not capable of (エ) out the watchkeeping duties effectively, in (オ) case the master shall be notified.

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|-------------|------------|----------|
| 1. carrying | 2. come | 3. hand |
| 4. if | 5. in | 6. on |
| 7. taking | 8. whether | 9. which |